

## Multi - Underfloor Insulation **Product Data Sheet**

### Application

NOVAtherm Multi thermal insulation is made in New Zealand from 100% lofted thermally bonded polyester fibres. It is easy to install as it is friction fitted between the floor joists and is able to be squeezed to fit tightly under the floor.

Air trapped inside the fabric and inside the hollow fibres contribute to the insulation the pads provide. As a medium density pad product, it will outperform underfloor blanket when in-situ.

### Product features and benefits

- InsulPro take the fibres from recycled plastic bottles (PET), that would otherwise be waste, and manufacture NOVAtherm Multi.
- Manufactured in pad form, it is friction fitted snug up against the floor. There is no need for staples, removing the danger of electrocution.
- NOVAtherm Multi insulation creates a healthier, more comfortable home environment, costing less to heat and cool - it reduces the draughts coming up from under the floor.
- If your home was built before 2000, you are eligible for up to \$1,300 towards the cost of insulation, as part of the ENERGYWISE home insulation programme. Check out [www.energywise.govt.nz](http://www.energywise.govt.nz) for full terms and conditions.
- NOVAtherm Multi is manufactured to last. InsulPro will guarantee it for 50 years!<sup>1</sup>
- No precautions are required for handling NOVAtherm Multi. It will not cause irritation when touched and it gives off no fumes or odours.
- NOVAtherm Multi is safe and easy to work with - manufactured in pad form for ease of install.
- NOVAtherm Multi will reduce the noise of foot fall on floorboards.
- NOVAtherm Multi is manufactured in New Zealand.

<sup>1</sup> InsulPro guarantee that, so long as the insulation is installed correctly and remains adequately protected, NOVAtherm and NOVAfloor will perform as well as when installed for at least 50 years.



### Product range

		Bale Pack Sizes			
NOVAtherm Multi Product Range	Product R-value	Nominal Thickness (mm)	Dimensions (mm)	Pieces per pack	Total Area (m <sup>2</sup> )
Underfloor Polyester Insulation	1.8	90	425 x 1200	8	4.08
		90	475 x 1200	8	4.56
		90	525 x 1200	7	4.41
		90	575 x 1200	6	4.14
		90	600 x 1200	5	3.60

## Technical details

Technical Attributes	Standard	Test Result
<b>New Zealand Building Code</b>		
✓ Durability	Clause B2.3.1 a) 15 years Clause B2.3.1 b) 50 years	NOVAtherm Multi has been developed to meet the New Zealand Building Code requirements.
✓ Internal Moisture	Clause E3.3.1	
✓ Hazardous Building Materials	Clause F2.3.1	
✓ Energy Efficiency	Clause H1.3.1(a) Clause H1.3.2 E	
<b>Product Safety</b>		
✓ Non Toxic	OSH Health and Safety Guidelines <sup>1</sup>	Polyester products 'non-toxic' and 'non-irritant'
✓ Non Irritant	OSH Health and Safety Guidelines <sup>1</sup>	
✓ Respiratory Safe	n/a	Polyester fibres are non-respirable
✓ Non Flammable	AS 1530 Part 3:	
	Ignitability	0 (Scale 0:20)
	Spread of Flame	0 (Scale 0:10)
	Heat Evolved	0 (Scale 0:10)
✓ VOC Emission Safe <sup>2</sup>	Total VOC ≤ 0.5mg/m <sup>3</sup>	< 0.005mg/m <sup>3</sup> — level below detection
	Formaldehyde ≤ 0.06mg/m <sup>3</sup>	< 0.009mg/m <sup>3</sup> — level below detection
✓ Glue Free	n/a	Free from all glues
<b>Other</b>		
✓ Non Corrosive	AS/NZS4859.1	Materials composed entirely of polyester are regarded as non-corrosive and are exempt from testing. Polyester has alkalinity of pH7.8
✓ Vermin Resistant	n/a	Not a food source for vermin (and not treated)

<sup>1</sup> Occupational Safety and Health Service. Health and Safety Guidelines for the Selection and Safe Handling of Synthetic Mineral Fibres. Department of Labour, 1994, p18.

<sup>2</sup> NOVAtherm has been tested under ASTM D5116 to the limits set for insulation by CETEC PTY Ltd

<sup>3</sup> All individual VOCs were less than their threshold limit values. Carcinogens and reproductive toxins were not identified as part of the VOCs

## Specification and installation

For further NOVAtherm Multi specifications please contact InsulPro on 0800 100 007.

NOVAtherm must be installed according to the manufacturer's guidelines and in accordance with NZ Standard 4246 (Energy Efficiency – Installing Insulation in Residential Buildings).

For step by step installation guidelines see [www.insulpro.co.nz](http://www.insulpro.co.nz) or call InsulPro.



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## Creating better environments with NOVAtherm

- NOVAtherm Multi helps to create more comfortable and healthy living spaces.
- A more energy efficient space will protect the environment by consuming less fossil fuels for heating and cooling.
- NOVAtherm Multi products contain recycled polyester fibres. The recycled fibre used by InsulPro comes 100% from recycled plastic bottles.
- Recycling plastic protects the environment by keeping the carbon content locked up in the polyester fibre and reducing landfill waste.
- NOVAtherm Multi is made in a near zero waste production process, and is fully recyclable.

For more information go to [www.insulpro.co.nz](http://www.insulpro.co.nz) or contact an InsulPro representative.

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