

InsulPro

# NOVAtherm

creating better environments

## Friction Fitted Airlay Insulation **Product Data Sheet**

### Application

NOVAtherm medium density 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 studs, joists and nogs creating a seamless, smooth fit without tucks, creases or gaps. This seamless fit is the ultimate way to insulate - it supports higher thermal performance across the system by retaining it's nominal thickness, ensuring no gaps, tucks or creases. Friction fitted, Airlay insulation is made using a unique manufacturing process whereby the fibres are completely randomized rather than layered. This provides for differing structural properties of the product, enabling it to support itself within a cavity by simply squeezing it in place. It is suitable for floors, walls and ceiling:

#### Floor

There is no need for staples, removing the danger of electrocution

#### Wall

Friction fitted between studs and nogs, without creases, gaps or tucks

#### Roof

Designed for skillion (cathedral/Chapel) or low slope ceilings - where the roof and ceiling run in close parallel



### Product features and benefits

- NOVATHERM Airlay products seamless installation supports higher thermal performance across the system - providing higher construction R-values. (refer to Appendix One)
- NOVATHERM insulation creates a healthier, more comfortable home environment, costing less to heat and cool.
- InsulPro take the fibres from recycled plastic bottles (PET), that would otherwise be waste, and manufacture NOVATHERM.
- No precautions are required for handling NOVATHERM. It will not cause irritation when touched and it gives off no fumes or odours.
- NOVATHERM Airlay products are safe and easy to work with - manufactured in pad form for ease of install.
- Chemical Free, with no formaldehyde or insecticides - is not affected by moisture



### Product Range

NOVAtherm Friction Fit Airlay Product Range	Product R-value	Bale Pack Sizes		
		Nominal Thickness (mm)	Widths (mm)	Length (mm)
Underfloor	1.8	90	425, 475, 525 & 575	1200
	1.9	90	425, 475, 525 & 575	1200
Wall	1.9	90	370, 425, 475 & 580	760
	2.0	90	360 & 560	760
	2.2	90	360 & 560	760
	2.5**	90	360 & 560	760
	2.8	140	360 & 560	760
Ceiling	2.9	115	560 & 860	1200
	3.2	165	570 & 870	1200

\* InsulPro guarantee that, so long as the insulation is installed correctly and remains adequately protected, NOVATHERM will perform as well as when installed for at least 50 years.

\*\* R2.5 Wall is double layer R1.25, 45mm

## 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 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)
	Smoke Developed	2 (Scale 0:10)
	AS/NZS 60695.2.11	Passed - Glow wire Flammability test
✓ VOC Emission Safe <sup>2</sup>	Total VOC ≤ 0.5mg/m <sup>3</sup> Formaldehyde ≤ 0.06mg/m <sup>3</sup>	< 0.005mg/m <sup>3</sup> — level below detection < 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)

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

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

3 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 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.



**InsulPro**

**InsulPro Manufacturing Ltd**

27 Birmingham Road,  
East Tamaki, Manukau 2013  
PO Box 204 289 Highbrook,  
Manukau 2061, New Zealand

P +64 9 273 2308 F +64 9 273 2309  
insulation help-line 0800 100 007  
[www.insulpro.co.nz](http://www.insulpro.co.nz)

## Creating better environments with NOVAtherm

- NOVAtherm 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 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 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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