

Wall Insulation **Product Data Sheet**

Application

NOVAtherm thermal insulation is made in New Zealand from 100% lofted, thermally bonded polyester fibres. The polyester conjugate fibre used is crimped giving NOVAtherm excellent performance. NOVAtherm is designed for use in walls to provide thermal insulation. The air trapped in the fabric and the air inside the hollow fibres all contribute to the blanket insulation.

Product features and benefits

- All NOVAtherm products contain recycled polyester fibre made from plastic bottles.
- NOVAtherm insulation creates a healthier, more comfortable home or work environment, costing less to heat and cool.
- NOVAtherm is BRANZ appraised (durability 50 years) and performance is guaranteed for 50 years by InsuPro¹.
- Environmental Choice certification for the highest R-value product (R2.8 Wall Blanket)
- NOVAtherm is safe and easy to work with. No precautions are required for handling the product. It will not cause irritation when touched, and it gives off no fumes or odours. NOVAtherm is easy to tear to length or cut with shears.
- As an added benefit, NOVAtherm will absorb noise to create a quieter environment.
- NOVAtherm is manufactured in New Zealand.

¹ InsuPro 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

NOVAtherm Product Range	BRANZ Appraised Appraisal No.430 [2008]	Product R-value	Bale Pack Sizes			
			Nominal Thickness (mm)	Dimensions (mm)	Per pack	Total Area (m ²)
NOVAtherm R2.0 Wall Pads	✓	2.0	90	580 x 1160	15	10.09
NOVAtherm R2.2 Wall Pads	✓	2.2	90	580 x 1160	13	8.75
NOVAtherm R2.5 Wall Pads	✓	2.5	90	580 x 1160	8	5.38
NOVAtherm R 1.0 Masonry Wall		1.0	45	580 x 12930	4 (rolls)	30.00
NOVAtherm R 1.3 Masonry Wall		1.3	45	560 x 1200	12	8.06
NOVAtherm R 1.8 Wall Blanket		1.8	90	580 x 11490	3 (rolls)	20.00
NOVAtherm R 2.0 Wall Blanket	✓	2.0	90	580 x 12930	2 (rolls)	15.00
NOVAtherm R 2.2 Wall Blanket*	✓	2.2	90	580 x 12930	1 (roll)	7.50

*Novatherm Wall Blanket products also include R2.5, R2.6, and R2.8 (Environmental Choice Certification applies to R2.6 & R2.8)

Technical details

Technical Attributes	Standard	Test Result
New Zealand Building Code		
✓ Durability	Clause B2.3.1 a) 15 years Clause B2.3.1 b) 50 years	According to BRANZ Appraisal No 430 (2008) NOVatherm will meet or contribute to meeting these provisions ¹
✓ 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	
Product Safety		
✓ Non Toxic	OSH Health and Safety Guidelines ²	Polyester products 'non-toxic' and 'non-irritant'
✓ Non Irritant	OSH Health and Safety Guidelines ²	
✓ 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	3 (Scale 0:10)
	AS/NZS 60695.2.11	Passed - Glow wire Flammability test
✓ VOC Emission Safe	AS/NZS 60695.11.5	Passed - Test flames (Needle-flame test)
	Greenguard limits ³ Total VOC ≤ 0.5mg/m ³ Formaldehyde ≤ 0.06mg/m ³	< 0.005mg/m ³ ⁴ — level below detection < 0.009mg/m ³ — level below detection
✓ Glue Free	n/a	Free from all glues
Other		
✓ 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 Designed, used, installed and maintained in accordance with the statements and conditions of BRANZ Appraisal 430 (2008) available from www.insulpro.co.nz

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

3 NOVatherm has been tested under ASTM D5116 to the limits set for insulation by the Greenguard Environmental Institute for low emitting products

4 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

NOVatherm specifications are listed with Masterspec™ and at www.insulpro.co.nz

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 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

Authorised Distributor

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.
- All NOVatherm products contain recycled polyester fibres. The recycled fibre used by InsulPro comes 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.
- NOVatherm's high R-value products have Environmental Choice Certification.

For more information go to www.insulpro.co.nz or contact an InsulPro representative.

