

Underfloor Segment Insulation **Product Data Sheet**

Application

NOVAfloor thermal insulation is made in New Zealand from 100% thermally bonded polyester fibres. The polyester fibres give NOVAfloor excellent durability. Air trapped inside the fabric and inside the hollow fibres contribute to the insulation the segments provide.

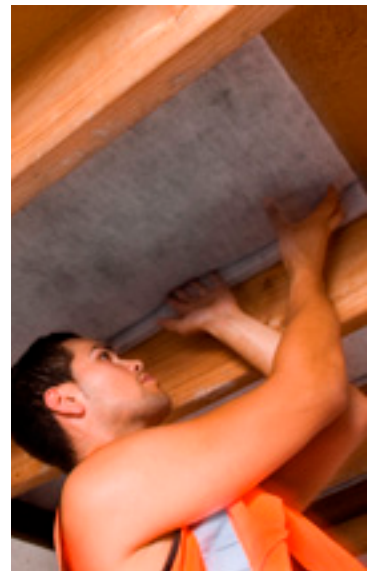
NOVAfloor is a heavy duty, high density product, which is semi-rigid in nature. It is designed for use as thermal insulation under floors where the product can be friction fitted between floor joists.



Product features and benefits



- All NOVAfloor products contain recycled polyester fibre made from plastic bottles.
- NOVAfloor insulation creates a healthier, more comfortable home environment, costing less to heat and cool. It cuts out draughts coming up from under the floor.
- NOVAfloor is BRANZ appraised (durability 50 years) and performance is guaranteed by InsulPro for 50 years¹.
- Friction fitted NOVAfloor eliminates the risk of electrocution associated with stapled-in under floor products. NOVAfloor requires no mechanical fixing.
- Thermal resistance of NOVAfloor is R1.4. Independent testing has proven that NOVAfloor's performance meets the New Zealand Building Code even during adverse under floor conditions.
- NOVAfloor is the first under floor insulation to have Environmental Choice certification.
- NOVAfloor is safe and easy to work with. No precautions are required for handling the product – it will not cause irritation when touched. NOVAfloor gives off no fumes or odours.
- NOVAfloor will reduce the noise of foot fall on floorboards.
- NOVAfloor is manufactured in New Zealand.

¹ 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



NOVAfloor Product Range	 BRANZ Appraised Appraisal No.620 [2008]	 Licence number 2510069 Thermal (resistive-type) Building Insulants	Product R-value	Nominal Thickness (mm)	Dimensions (mm)	Pieces per pack	Total Area (m ²)
NOVAfloor Underfloor Insulation	✓	✓	1.4	55	1200 x 375	14	6.3
					1200 x 435	14	7.3
					1200 x 485	14	8.1
					1200 x 535	12	7.7
					1200 x 580	12	8.3

NOVAfloor can be manufactured in other dimensions subject to minimum order quantities. Contact InsulPro or your authorised distributor to discuss your requirements.

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 620 (2008) NOVAfloor will meet or contribute to meeting these provisions¹	
✓ 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 Guidelines²	Polyester products ‘non-toxic’ and ‘non-irritant’	
✓ Non Irritant	OSH Health and Safety Guidelines²		
✓ 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)	
✓ VOC Emission Safe	Greenguard limits³ Total VOC ≤ 0.5mg/m³ Formaldehyde ≤ 0.06mg/m³	< 0.04mg/m³⁴ < 0.009mg/m³	
	✓ Glue Free	n/a	Free from all glues
	Other		
✓ Non Corrosive	NZS 4222	Alkalinity of pH 7.8	
✓ 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 620 (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 NOVAfloor 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

For NOVAfloor specification advice contact an InsulPro representative.

NOVAfloor 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.



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Creating better environments with NOVAfloor

- NOVAfloor 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.
- NOVAfloor contains 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.
- NOVAfloor is made in a near zero waste production process, and is fully recyclable.
- NOVAfloor has Environmental Choice Certification.

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



Authorised Distributor