

## Panel Absorber Insulation **Product Data Sheet**

### Application

NOVAhush Panel Absorber is made in New Zealand by InsulPro Manufacturing Limited from black or white 100% lofted thermally bonded polyester fibre. It is for use in a wide range of thermal and acoustic applications within domestic and commercial buildings.

NOVAhush Panel Absorber is a semi-rigid board in black or white polyester – available as a plain product, or a thermally bonded dense black, polyester facing. NOVAhush Panel Absorbers can remain exposed or can be applied behind perforated panels in areas like factories, workshops, cinemas, gymnasiums, halls, offices, home theatres, shops and various public spaces.

NOVAhush has excellent absorption properties and is generally used as a surface mounted treatment on walls and ceilings.

When installed to the manufacturer's instructions, NOVAhush will satisfy the requirements of NZBC (New Zealand Building Code), B2.3b (50 years), B2.3c (15 years) and B2.3d (5 years) for durability and F2 - Hazardous Building materials.

NOVAhush has been Fire Resistance tested to AS1530 part 3. The results are overleaf.

### Product features and benefits

- Excellent acoustic absorption performance
- Excellent thermal performance – reduces or eliminates the need to insulate the exterior of the structure.
- Healthier option for both the installer and the consumer as it doesn't give off fumes or odours is not itchy and doesn't require the use of protective clothing when installed.
- Made from Polyester fibres, including recycled plastic bottles - 100% recyclable



### Product range

			Bale Pack Sizes			
NOVAhush Product Range	Product R-Value	NRC	Nominal Thickness (mm)	Dimensions (mm)	Pieces per pack	Total Area (m <sup>2</sup> )
35 – 25mm	0.70	0.70	25	2400 x 1200	12	34.56
35 – 50mm	1.40	0.90	50	2400 x 1200	6	17.28
35 – 75mm	2.11	1.05	75	2400 x 1200	4	11.52
20 – 100mm	2.27	0.95	100	2400 x 1200	3	8.64
40 – 100mm	2.96	1.05	100	2400 x 1200	3	8.64

## Technical details

Technical Attributes	Standard	Test Result
New Zealand Building Code		
✓ Durability	Clause B2.3.1b) 50 years	
✓ Internal Moisture	Clause E3.3.1	
✓ Hazardous Building Materials	Clause F2.3.1	
Product Safety		
✓ Non Toxic	OSH Health and Safety Guidelines <sup>1</sup>	Polyester products 'non-toxic' and 'non-irritant'
✓ Non Irritant		
✓ 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 <sup>3</sup>	Greenguard limits <sup>2</sup> Total VOC ≤ 0.5mg/m <sup>3</sup> Formaldehyde ≤ 0.06mg/m <sup>3</sup>	Level below detection Level below detection
✓ Glue Free		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 Occupational Health and Safety Service. Health and Safety Guidelines for the Selection and Safe Handling of Synthetic Mineral Fibres. Department of Labour, 1994, p18.

2 NOVAhush has been tested under ASTM D5116 to the limits set for insulation by the Greenguard Environmental Institute for low emitting products.

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

## Emissions test data

Product	Total Volatile Organic Compound Specific Emission Rate (mg/m <sup>2</sup> /hr)
Black Panel Absorber Liner	<0.003

This product can be classed as low VOC emitting. The material emissions are less than the recognised threshold of 0.5 mg/m<sup>2</sup>/hr – eg: 'Green Star'

## Specification and installation

For NOVAhush specification advice contact an InsulPro representative.

NOVAhush must be installed according to the manufacturer's guidelines, which are printed on the back of each bale label. These guidelines are also available at [www.insulpro.co.nz](http://www.insulpro.co.nz) or call InsulPro on 0800 100 007.



## Creating better environments with NOVAhush

- NOVAhush helps to create a more energy efficient comfortable and healthy environment.
- A more energy efficient space will protect the environment by consuming less fossil fuels for heating and cooling.
- NOVAhush Panels are made in a near zero waste production process and are fully recyclable.

For more information go to [www.insulpro.co.nz](http://www.insulpro.co.nz) or contact an InsulPro representative on 0800 100 007.



Available from T & R Interior Systems' Warehouses:

Wellington  
Auckland  
Christchurch

/t/ 0800 666 556  
/w/ [www.tr-interiorsystems.co.nz](http://www.tr-interiorsystems.co.nz)

