

# NOVAhush

**50**  
Year Warranty\*



## Panel Absorber Acoustic Insulation

### APPLICATION

Mammoth™ NOVAhush Panel Absorber acoustic insulation is 100% polyester and designed to be used as an interior surface lining in commercial or residential spaces to help reduce noise reverberation. It is a semi rigid board in white, black or grey and can also be used within HVAC ducting. NOVAhush Panel Absorber gained the supreme Group 1s rating under the ISO 9705 Fire test, making it a versatile and safe choice for any surface liner.

	Where can you use NOVAhush Panel Absorber
Exitways, All occupied space in importance level 4 building	✓
Wall materials in sleeping spaces (not in household units)	✓
Ceiling materials in sleeping spaces (not in household units)	✓
All other occupied spaces including household units: walls and Ceilings	✓
Ducts for HVAC systems: internal surfaces	✓
Ducts for HVAC systems: external surfaces. Acoustic treatment and pipe insulation with air handling plenum	✓

\*subject to condition of existing concrete

### PRODUCT FEATURES AND BENEFITS

- High Acoustic performance - up to NRC 1.05.
- Safe to use as an Interior surface liner - ISO 9705 Fire Test - Group 1s rating.
- Mammoth™ NOVAhush Panel Absorber is not affected by moisture. If, for any reason, it gets wet it will dry out with no adverse effect on its performance or durability.
- Mammoth™ NOVAhush products are light-weight and easy to handle.
- No precautions are required for handling the product - it will not cause irritation when touched.
- Mammoth™ NOVAhush Panel Absorber can be manufactured with a white or black face.
- All products are resistant to vermin.
- Odourless, non-irritant, with no added chemicals.
- Manufactured in New Zealand.



### PRODUCT RANGE

Mammoth™ NOVAhush Product Range	PRODUCT* R-VALUE	NRC
35-25mm	0.70	0.70
35-50mm	1.40	0.90
35-75mm	2.04	0.95
20-100mm	2.63	0.95
40-100mm	3.23	1.05

### BALE PACK SIZES

NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	PIECES PER PACK	TOTAL AREA (m <sup>2</sup> )
25	2400x1200	12	34.56
50	2400x1200	6	17.28
75	2400x1200	4	11.52
100	2400x1200	3	8.64
100	2400x1200	3	8.64

NOVAhush can be manufactured in other dimensions subject to minimum order quantities. NOVAhush Panel Absorber is designed for acoustic application and not recommended for visual applications as the surface may show creases, wrinkles or slight colour variations due to the manufacturing process.

\* Thermal resistances are estimates based on test results for products with similar nominal weight.

# TECHNICAL DETAILS

Technical Attributes	Standard	Test Result
<b>New Zealand Building Code</b>		
✓ Durability	Clause B2.3.1 b) 50years	
✓ Internal Moisture	Clause E3.3.1	
✓ Hazardous Building Materials	Clause F2.3.1	
<b>Product Safety</b>		
✓ 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
✓ Fire Test	ISO 9705	Group 1S

## EMISSIONS TEST DATA

✓ VOC Emission Safe <sup>3</sup>	Total VOC ≤ 0.5mg/m <sup>3</sup> Formaldehyde ≤ 0.06mg/m <sup>3</sup>	< 0.01mg/m <sup>3</sup> level below detection <sup>2</sup> < 0.03mg/m <sup>3</sup> level below detection
✓ Glue Free	Product does not contain chemical binders	
<b>Other</b>		
✓ Non Corrosive	NZS 4222	Alkalinity of pH7.8
✓ Vermin Resistant	n/a	Not a food source for vermin (and not treated)

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

<sup>2</sup> NOVAhush 35-25 has been tested under ASTM D5116.

<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.

**Mammoth™ NOVAhush Panel Absorber is compliant with the Building Code of Australia C1.1 (AS ISO 9705) and the New Zealand Building Code C/VM2 (ISO 9705) as a surface lining material for walls and ceilings and also as a HVAC duct liner.**

## SPECIFICATION AND INSTALLATION

For Mammoth™ NOVAhush specification advice contact a Mammoth representative.

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

## A SUSTAINABLE CHOICE

- All Mammoth™ products are Red List Free - International Living Future Institute.
- Manufactured by a carboNZero certified organisation.
- Mammoth™ products contain recycled polyester fibres. The recycled fibre used by Mammoth™ comes from plastic bottles.
- Recycling plastic protects the environment by keeping the carbon content locked up in the polyester fibre and reducing landfill waste.
- Mammoth™ products are made in a near zero waste production process and are fully recyclable.

For more information go to [mammoth.co.nz](http://mammoth.co.nz) or contact a Mammoth™ representative



**Mammoth™**  
MODERN INSULATION

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**Declare.**

NOVAhush  
InZone Industries Ltd.

Final Assembly: New Zealand  
Life Expectancy: 50 Years +  
End of Life Options: Salvagable/Reusable in its Entirety, Recyclable

Ingredients:

Polyester Hollow Conjugate Staple Fibre (Seoul, Korea), Polyester Staple Non-Siliconized Fibre (Taipei, Taiwan), Polyester Staple Fibre (Negeri, Sembilan), Finish Oils (Seoul, Koera), Flame Retardant Agent (Phosphate) (Seoul, Korea)

Living Building Challenge Criteria:

INZ-0002 Exp: 09/01/2015  
VOC Content: 0.09 mg/m<sup>3</sup> VOC Emissions: CDPH Compliant  
Declaration Status:  LBC Red List Free  
 LBC Compliant  
 Declared

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