



Mammoth™
MODERN INSULATION

50
Year Warranty



Carpark Panel Insulation

APPLICATION

Mammoth™ Carpark Panel airtight insulation is made from 100% lofted thermally bonded polyester fibres. The panels are designed to improve thermal performance of carpark ceilings for residential and commercial buildings which will enhance wellbeing and comfort for the occupants. Mammoth™ Carpark Panels contour around uneven textures which are common place in concrete form work. This helps the insulation achieve a seamless fit that supports higher thermal performance across the system by preventing air movement between the insulation panel and the substrate.

Mammoth™ Carpark Panel complies with provisions of the New Zealand Building Code (NZBC): AS/NZS 4859.1 for thermal performance and ISO 9705 for the material Group Number 1-S for fire performance.

Mammoth™ Carpark panel airtight insulation is made using a unique manufacturing process whereby the fibres are completely randomized rather than layered. This provides for differing structural properties and greater flexibility which helps achieve high thermal performance when the product is affixed to concrete.

PRODUCT FEATURES

- Mammoth™ airtight products seamless installation supports higher thermal performance across the system - providing higher construction R-values.
- Mammoth™ products are safe, non-irritant and easy to work with.
- Mammoth™ Carpark Panels are designed to be fitted only between concrete Ts - they are not designed to wrap the Ts.
- Mammoth™ products are chemical free, with no formaldehyde or insecticides.
- Mammoth™ products are backed by a 50 year manufacturer's warranty.
- Mammoth™ Carpark Panel assists in absorbing noise to create a quieter environment.
- Mammoth™ Carpark Panel can be used in commercial and residential construction.
- Mammoth™ products are made in New Zealand by InsulPro - a carbonZero certified organisation.



PRODUCT RANGE

PACK SIZES

MAMMOTH™ Carpark Panel	PRODUCT R-VALUE	NRC	NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	PIECES PER PACK	TOTAL AREA (m ²)
Grey	2.5	NA	100	2400x1200	3	8.64
	2.0	NA	90	2400x1200	4	11.52
	1.7	0.85	70	2400x1200	4	11.52
	1.4	NA	55	2400x1200	4	11.52

Carpark Panel is designed for thermal application and colour contrasts are designed to blend in with the varying natural hues in concrete, as a result, the surface may have differing textures.

TECHNICAL DETAILS

Technical Attributes	Standard	Test Result
New Zealand Building Code		
✓ Thermal performance	ASTM C518	R2.0, R1.7, R1.4
Product Safety		
✓ Non Toxic	OSH Health and Safety Guidelines ¹	Polyester products 'non-toxic' and 'non-irritant'
✓ Non Irritant	OSH Health and Safety Guidelines ¹	
✓ Respiratory Safe	n/a	Polyester fibres are non-respirable
✓ Fire Performance: R1.7 AS ISO 9705 - 2003 & ISO 9705: 1993	NCC BCA Specification C1.10 Clause 3 and Specification A2.4 Clause 4 NZBC Verification Method C/VM2 Appendix A	Group Number: 1 SMOGR _{acc} not more than 100 m ² /s ² x 1000 Group Number: 1-S Smoke Production Rate not more than 5 m ² /s
✓ VOC Emission Safe ²	Total VOC ≤ 0.5mg/m ³ Formaldehyde ≤ 0.06mg/m ³ Total VOC Specific emission rate (mg/m ² /hr)	< 0.004mg/m ³ - level below detection ³ < 0.009mg/m ³ - level below detection < 0.03mg/m ² /hr
✓ Glue Free	n/a	Free from all chemical binders
Other		
✓ Non Corrosive	AS/NZS 4859.1	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)
✓ Acoustic Performance (NRC)	ISO 354	0.85

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 Another Mammoth™ product with a similar nominal weight and fibre composition was tested to ASTM D5116 and classed as low VOC emitting.

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

Mammoth Carpark Panel 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.

SPECIFICATION AND INSTALLATION

For further Mammoth™ specifications, please contact Mammoth™ on 0800 MAMMOTH.

Mammoth™ Carpark Panel airway insulation must be installed in accordance with the manufacturer's guidelines.

For step by step installation guidelines see mammoth.co.nz or call Mammoth™.

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 recycled 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 or contact a Mammoth™ representative

