



# CARPARK INSULATION PANEL

## APPLICATION



Mammoth™ Carpark Panel insulation is designed to improve the thermal performance of commercial or residential buildings above carpark. The insulation is designed to be fitted to concrete soffits/slabs.

Mammoth Carpark Panels contour over uneven textures which are common place in concrete form work. The Airlay manufacture of Mammoth Carpark Panels 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 1S for fire performance.

## FEATURES & BENEFITS

- Mammoth Carpark panels are semi-rigid, polyester insulation panels for concrete soffits and slabs.
- 100% heat bonded polyester with thermal and acoustic benefits.
- Suitable for commercial and residential construction.
- Group Number 1-S for fire performance.
- Grey marle in colour.
- Designed to be fitted only between concrete Ts (they are not designed to wrap the Ts).
- Mammoth Carpark Panels also assists in absorbing noise to create a quieter environment.
- Supports a seamless installation with high thermal performance across the system.
- Safe, non-irritant and easy to work with - no precautions are required for handling the product.
- Red List Free - no glues, resins formaldehyde or pesticides added.
- Performance warranted for 50 years (Ts&Cs apply).
- Made in New Zealand by InZone Industries Ltd.

## PRODUCT RANGE

PRODUCT RANGE			NRC	PRODUCT R-VALUE	NOMINAL THICKNESS (MM)	DIMENSION (MM)	PIECES PER PACK	TOTAL AREA (M2)
Carpark Panel			0.85	R 1.4	55	2400 x 1200	4	11.52
				R 1.7	70	2400 x 1200	4	11.52
				R 2.0	90	2400 x 1200	4	11.52
				R 2.5	100	2400 x 1200	3	8.64

*Note: 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
<b>Performance</b>		
✓ Thermal Performance	ASTM C518	As shown on Product Range Table
✓ Acoustic Performance	ISO 354	As shown on Product Range Table
<b>Product Safety</b>		
✓ Non Toxic	OSH Health and Safety Guidelines <sup>1</sup>	Polyester products are 'non-toxic'
✓ Non Irritant	OSH Health and Safety Guidelines <sup>1</sup>	Polyester products are 'non-irritant'
✓ Respiratory Safe	n/a	Polyester fibres are non-respirable
✓ Fire Performance: R1.7AS ISO 9705 - 2003 & ISO 9705: 1993	NCC BCA Specification C1.10 Clause 3 and Specification A2.4 Clause 4NZBC Verification MethodC/VM2 Appendix A	Group Number: 1 SMOGRA not more than 100m <sup>2</sup> /s <sup>2</sup> x 1000  Group Number: 1-S Smoke Production Rate not more than 5m <sup>2</sup> /s
✓ VOC Emission Safe <sup>2</sup>	Total VOC ≤ 0.5mg/m <sup>3</sup>	< 0.005mg/m <sup>3</sup> - level below detection <sup>4</sup>
	Formaldehyde ≤ 0.06mg/m <sup>3</sup>	< 0.009mg/m <sup>3</sup> - level below detection
✓ Glue Free		Free from all glues and chemical binders
<b>Other</b>		
✓ Non Corrosive	AS/NZS4859.1	Materials composed entirely of polyester are regarded as non-corrosive and are exempt from testing. Alkalinity of pH 7.8.
✓ Vermin Resistant		Not a food source for vermin (and not treated)

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

<sup>2</sup> Another Mammoth™ product with a similar nominal weight and fibre composition was tested to ASTM D5116 and classed as low VOC emitting.

<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 Carpark Panel is compliant with the Building Code of Australia C1.1 (AS ISO 9705) and the New Zealand Building Code C/VM (ISO 9705) as a surface lining material.

## SPECIFICATION & INSTALLATION

### Installation

Mammoth Carpark Panel must be installed according to the manufacturer's guidelines. Installation Instructions for can be found at [www.mammoth.co.nz/downloads](http://www.mammoth.co.nz/downloads) For further information please contact Mammoth on 0800 MAMMOTH

### 50 Year Warranty

Mammoth Insulation has a 50 year warranty. Our product warranty covers that - so long as the insulation is installed correctly and remains adequately protected - Mammoth insulation will perform for 50 years. The warranty applies only to 100% polyester insulation products manufactured by InZone Industries Ltd and not to other composite products manufactured by InZone Industries Ltd. Terms & conditions apply. Read the full warranty at [www.mammoth.co.nz](http://www.mammoth.co.nz)

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