Acoustic Panel Absorber

Mammoth® Panel Absorber is designed to be used as an interior surface lining in commercial or residential spaces to help reduce noise reverberation.

Mammoth® Panel Absorber acoustic insulation is a 100% polyester semi rigid board in white, white with black face, black or grey. With a Group 1S fire rating under the ISO9705 Fire test, it is suitable for use in exit ways and a variety of occupied spaces and HVAC systems.

Mammoth Panel Absorber is available in various densities and thicknesses, ranging from 35-25mm, 35-50mm, 35-75mm, 20-100mm and 40-100mm and are 2400mm x 1200mm panel sizes. Custom cuts are available for larger projects with MOQ.

Mammoth Panel Absorber is manufactured using two different processes, airlay and card. While the functions and specifications of Mammoth Panel Absorber produced in both ways remain the same, the appearance is different, which is most apparent on the grey panels. Airlay manufacturing produces a distinctly mottled grey finish, while the card is a more uniform grey with some tonal variations.

Panel Absorber is suitable for use in most exposed applications, but is primarily designed for acoustic performance rather than a high visual finish as it may show some creasing, finish and colour variations.

Please contact your local Mammoth representative for more information and samples.

PRODUCT RANGE					PACK SIZES			
Acoustic Panel Absorber	Density/ Thickness (mm)	NRC	MOQ (m2)	R-Value	Airlay / Card	Dimensions (mm)	Pieces per pack	Area per pack (m2)
White	35/ 25	0.70	500	NA	Card	1200 x 2400	12	34.56
	35/ 50	0.90	No MOQ	NA	Card	1200 x 2400	6	17.28
	35/ 75	0.95	500	NA	Airlay	1200 x 2400	4	11.52
	20/ 100	1.05	500	NA	Airlay	1200 x 2400	3	8.64
	40/ 100	1.05	500	NA	Airlay	1200 x 2400	3	8.64
White with Black Face	35/ 25	0.70	No MOQ	R 0.7	Card & Airlay	1200 x 2400	12	34.56
	35/ 50	0.90	No MOQ	R 1.4	Card & Airlay	1200 x 2400	6	17.28
	35/ 75	0.95	250	R 2.0	Airlay	1200 x 2400	4	11.52
	20/ 100	1.05	250	R 2.3	Airlay	1200 x 2400	3	8.64
	40/ 100	1.05	250	R 2.7	Airlay	1200 x 2400	3	8.64
Black with Black Face	35/ 25	0.70	250	NA	Airlay	1200 x 2400	12	34.56
	35/ 50	0.90	No MOQ	NA	Airlay	1200 x 2400	6	17.28
	35/ 75	0.95	250	NA	Airlay	1200 x 2400	4	11.52
	20/ 100	1.05	500	NA	Airlay	1200 x 2400	3	8.64
	40/ 100	1.05	500	NA	Airlay	1200 x 2400	3	8.64
Grey	35/ 25	0.70	250	NA	Card	1200 x 2400	12	34.56
	35/ 50	0.90	250	NA	Card	1200 x 2400	6	17.28
	35/ 75	0.95	250	NA	Airlay	1200 x 2400	4	11.52
	20/ 100	1.05	250	NA	Airlay	1200 x 2400	3	8.64

TECHNICAL DETAILS

Technical Attributes	Standard	Test Result
Product Safety		
✓ Non Toxic	OSH Health and Safety Guidelines[1]	Polyester products are 'non-toxic'
✓ Non Irritant	OSH Health and Safety Guidelines [1]	Polyester products are 'non-irritant'
✓ Respiratory Safe		Polyester fibres are non-respirable
✓ Fire Test[2]	ISO 9075	Group 1S
	AS/NZS60695.2.11	Passed - Glow wire flammability test
	AS/NZS60695.11.5	Passed - Test flames (Needle-flame test)
✓ VOC Emission Safe[3]	Total VOC ≤ 0.5mg/m^3	< 0.005mg/$m3^4$ - level below detection
	Formaldehyde ≤ 0.06mg/m^3	< 0.009mg/m3 - level below detection
✓ Glue Free		Free from all glues or chemical binders
Other		
✓ Thermal Performance	AS/NZS4859.1	Only applies to products with declared R-values
✓ Non Corrosive		Alkalinity of pH 7.8
✓ Moisture Resistance[5]		Absorption rate of less than 0.2% by weight
✓ Vermin Resistant		Not a food source for vermin (and not treated)
✓ Odourless		Mammoth is odourless and will not absorb odours

(1) Occupational Safety and Health Service. Health and Safety Guidelines for the Selection and Safe Handling of Synthetic MineralFibres,Dept of Labour, 1994.
(2) Can safely cover IC-rated downlights. If luminaire rating is unknown, minimum clearance of 100mm to any insulation is required.
(3) Mammoth has been tested under ASTM D5116. Based on test results for a product with similar nominal weight.
(4) All individual VOCs were less than their threshold limit values. Carcinogens and reproductive toxins were not identified as part of the VOCs.
(5) If the products should become wet the full thermal performance will be restored once the product is dried completely.

Mammoth 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.

Mammoth panel absorber can be manufactured in other dimensions subject to minimum order quantities. Mammoth 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.

INSTALLATION & WARRANTY

Installation

Mammoth Panel Absorber must be installed according to the manufacturer's guidelines. Installation Instructions for Mammoth Panel Absorber can be found at www.mammoth.co.nz/downloads. Contact us on 0800 MAMMOTH for more details.

90 Year Warranty
InZone Industries Holdings Ltd (InZone) manufactures Mammoth® 100% polyester insulation products in New Zealand which are designed to provide long-lasting, durable thermal and acoustic insulation. InZone warrant that, provided the polyester insulation is installed correctly and remains adequately protected, Mammoth will perform for 90 years in the building in which it is installed. This 90 Year Manufacturer's Warranty covers insulation material durability when installed in accordance with the manufacturers installation instructions and NZ4246: Energy Efficiency - Installing insulation in residential buildings. Download our Mammoth Insulation Warranty **here**.

Correct as at 11 November 2026