Acoustic Bafflestack

Mammoth Bafflestack helps to create comfortable internal environments by improving sound insulation between spaces.

Mammoth® Bafflestack insulation is a roll form product made from 100% thermally bonded polyester fibres, designed to be stacked and compressed within the plenum space above partition walls, to the roof or floor above. This reduces sound intensity and transference between rooms, without the need for the construction of walls within the plenum space.

Mammoth products contain recycled polyester fibres. Mammoth acoustic bafflestack insulation uses up to 3,700 recycled plastic bottles per 100sqm*.

Mammoth's acoustic range also includes Wall Sections, Wall Blankets, Panel Absorber and Duct Liner Insulation.

PRODUCT RANGE					PACK SIZES			
	Colour	Density (kg/m3)	GSM	Nominal thickness (mm)	Width (mm)	Length (mm)	Pieces per pack	Area per pack (m2)
Bafflestack	White	10.00	1000	100	600	11110	3	20

KEY FEATURES

- Using Mammoth Bafflestack will reduce sound intensity at all frequencies.
- Mammoth Bafflestack provides thermal and acoustic benefits for residential and commercial applications.
- 100% polyester acoustic insulation in a soft, roll-form to help absorb noise by reducing sound transmission at all frequencies.
- Mammoth Bafflestack reduces the need for any constructed cavity walls within a building.
- Mammoth Bafflestack blanket is laid over existing services in the ceiling cavity.
- Can be used in a single or double stack (see install instructions).
- Mammoth products contain recycled polyester fibres. Mammoth bafflestack insulation uses up to 3,700 recycled plastic bottles per 100sqm*.
- Lightweight and easy to handle - can easily be torn to length or cut with shears.
- Heat bonded - no glues or binders that can break down so it won't sag or settle over time.
- Red List Free - no formaldehyde or pesticides added.
- Safe, non-itch, odourless and non-toxic - no precautions are required for handling the product.
- Unaffected by moisture, Mammoth insulation will continue to perform once dried out.
- Mammoth is moisture, mould and mildew resistant.
- Eco Choice Aotearoa (prev. Environmental Choice) certified.
- NZ Green Building Council approved.
- Long lasting, Mammoth insulation is performance warranted for 90 years (T&Cs apply).
- Mammoth products are made in a zero waste production process and are fully recyclable.
- Recycling plastic protects the environment by keeping the carbon content locked up in the polyester fibre and reducing landfill waste.
- Mammoth 100% polyester Bafflestack insulation has an Ozone Depleting Potential (ODP) of zero.

** Calculations are based on 500ml PET Bottles (16.2g).*

TECHNICAL DETAILS

Technical Attributes	Standard	Test Result
New Zealand Building Code		
✓ Durability	Clause B2.3.1 (a) (b) Clause B2.3.2	Ref: BRANZ Appraisal No 797[1]
✓ Internal Moisture	Clause E3.3.1	Ref: BRANZ Appraisal No 797[1]
✓ Hazardous Building Materials	Clause F2.3.1	Ref: BRANZ Appraisal No 797[1]
Product Safety		
✓ Non Toxic	OSH Health and Safety Guidelines[2]	Polyester products are 'non-toxic'
✓ Non Irritant	OSH Health and Safety Guidelines[2]	Polyester products are 'non-irritant'
✓ Respiratory Safe		Polyester fibres are non-respirable
✓ Fire Test[3]	ISO9705	Group 1S
	AS/NZS60695.2.11	Passed - Glow wire flammability test
	AS/NZS60695.11.5	Passed - Test flames (Needle-flame test)
✓ VOC Emission Safe[4]	Total VOC ≤ 0.5mg/m^4	< 0.005mg/m3 - level below detection[5]
	Formaldehyde ≤ 0.06mg/m^4	< 0.009mg/m3 - level below detection
✓ Glue Free		Free from all glues
Other		
✓ Non Corrosive		Materials composed entirely of polyester are regarded as non-corrosive and are exempt from testing. Alkalinity of pH 7.8.
✓ Moisture Resistant[6]	ASTM C1104	Absorption rate of less than 0.3% by weight
✓ Vermin Resistant		Not a food source for vermin (and not treated)
✓ Odourless		Mammoth is odourless and will not absorb odours

(1) Meet or contribute to these provisions when designed, used, installed and maintained in accordance with BRANZ Appraisal 797 or 801.
(2) Occupational Safety and Health Service. Health and Safety Guidelines for the Selection and Safe Handling of Synthetic Mineral Fibres, Dept of Labour, 1994.
(3) Can safely cover IC-rated downlights. If luminaire rating is unknown, minimum clearance of 100mm to any insulation is required.
(4) Mammoth has been tested under ASTM D5116. Based on test results for a product with similar nominal weight.
(5) All individual VOCs were less than their threshold limit values. Carcinogens and reproductive toxins were not identified as part of the VOCs.
(6) If the products should become wet the full thermal performance will be restored once the product is dried completely.

INSTALLATION & WARRANTY

Installation
Mammoth Acoustic Bafflestack must be installed according to the manufacturer's guidelines. Installation Instructions for Mammoth Bafflestack 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 17 June 2026