Mammoth
MODERN INSULATION

Duct Insulation Liner

Mammoth Duct Liner is designed to absorb noise and thermally insulate HVAC ducts.

The polyester liner ensures the reduction of sound transfer along the duct and that air of the desired temperature is delivered at the outlets. Mammoth® Duct Liner comes in a plain white sheet or a white sheet with a black face. Mammoth Duct Liner is a semi rigid board made in New Zealand from 100% thermally bonded polyester fibres. The polyester conjugate fibre used is crimped giving excellent durability.

Mammoth's acoustic range also includes Wall Sections, Wall Blankets, Bafflestack and Panel Absorber insulation.

PRODUCT RANGE					PACK SIZES			
Mammoth Duct Liner	Density Thickness	NRC	GSM	Airlay/Card	R-Value	Dimensions (mm)	Pieces per pack	Area per pack (m2)
White : White w Black Face	35 - 13		455	Card & Airlay	NA	1200 x 2400	24	69.12
White : White w Black Face	35 - 25	0.70	875	Card & Airlay	R 0.7	1200 x 2400	12	34.56
White : White w Black Face	35 - 50	0.90	1750	Card & Airlay	R 1.4	1200 x 2400	6	17.28
White : White w Black Face	35 - 75	1.05	2625	Card & Airlay	NA	1200 x 2400	4	11.52
White : White w Black Face	20 - 100	0.95	2000	Card & Airlay	NA	1200 x 2400	3	8.64
White : White w Black Face	40 - 100	1.05	4000	Card & Airlay	NA	1200 x 2400	3	8.64

Custom widths available on request - minimum order quantities apply.

KEY FEATURES

- Mammoth Duct Liner (previously NOVAhush) is supplied plain and can have perforated foil or plain foil applied.
- Independent testing shows that Mammoth Duct Liner gives exceptional performance at the low end frequencies (125 - 500 Hertz).
- Absorbs fan drumming noise and reduces speech transference from room to room between air conditioning outlets.
- The thermal qualities eliminates the need to insulate the exterior of the ducting.
- Mammoth Duct Liner will not shed particles (fibre fall-out) or delaminate under high air flow velocities - ensuring the airstream remains clean.
- Assists in absorbing noise to create a quieter environment.
- The product is not conducive to fungal bacteria growth.
- Unaffected by moisture, Mammoth insulation will continue to perform once dried out.
- Mammoth is moisture, mould and mildew resistant.
- When installed to the manufacturer's instructions it will remain in place ensuring the thermal effectiveness of the installed system.
- Safe, non-itch, odourless and non-toxic - no precautions are required for handling the product.
- Lightweight and easy to handle - can easily be cut using wide blade craft knives or specialised insulation saws.
- 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.
- NZ Green Building Council approved.
- Long lasting, Mammoth insulation is performance warranted for 50 years (T&Cs apply).
- Mammoth 100% insulation products have an Ozone Depleting Potential (ODP) of zero.
- Mammoth products are made in a zero waste production process and are fully recyclable.
- Manufactured by InZone Industries Ltd, NZ's first and only Toitū net carbonzero certified insulation manufacturing organisation.

TECHNICAL DETAILS

Technical Attributes	Standard	Test Result
Fire Testing		
✓ Fire Test	ISO 9705	Group 1S
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	n/a	Polyester fibres are non-respirable
	AS/NZS60695.2.11	Passed - Glow wire flammability test
	AS/NZS60695.11.5	Passed - Test flames (Needle-flame test)
✓ VOC Emission Safe [2]	Total VOC ≤ 0.5mg/m^3	< 0.005mg/m3 - level below detection 4
	Formaldehyde ≤ 0.06mg/m^3	< 0.009mg/m3 - level below detection
✓ Glue Free		Free from all glues
Other		
✓ 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)
✓ Odourless	n/a	Mammoth™ is odourless and will not absorb odours
✓ Water Vapour Sorption	ASTM C1104	0.3% - Water Vapour Sorption by weight
✓ Antifungal Efficacy	ASTM G21-96 All samples incubated at 30 C for 28 day	Growth rate: 0 (Scale 0-4)

1 Occupational Safety and Health Service. Health and Safety Guidelines for the Selection and Safe Handling of Synthetic Mineral Fibres. Dept. of Labour, 1994.
2 Mammoth has been tested under ASTM D5116. Based on test results for a product with similar nominal weight.
3 All individual VOCs were less than their threshold limit values. Carcinogens and reproductive toxins were not identified as part of the VOCs.

INSTALLATION & WARRANTY

Installation
For Mammoth Duct Liner specification advice contact a Mammoth representative. Unless specifically required, Mammoth Duct Liner should be fixed in close contact with the duct surfaces. Edges should overlap and be sealed to prevent air gaps. Depending on duct size, Mammoth Duct Liner may require fixing using mechanical or adhesive methods. Where a vapour barrier is required, Mammoth Duct Liner should be completely sealed with 75mm aluminum tape or a suitable contact adhesive on all joints, and on penetrations such as mechanical fixings or control equipment. Installation methods outside these guidelines must be approved by the specifying engineer.

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. Read the full warranty at www.mammoth.co.nz for terms and conditions.

Correct as at 25 April 2024

Mammoth® MODERN INSULATION
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