



Wall Insulation Sections

Mammoth wall sections are semi-rigid polyester insulation designed to be friction fitted into the wall cavity.

Creating a seamless, smooth fit without tucks, creases or gaps, Mammoth® wall sections provide both thermal and acoustic benefits for homes and buildings. Mammoth wall sections are made on New Zealand's only airway insulation plant - accept no substitutes.

Mammoth products contain recycled polyester fibres. Mammoth wall section insulation uses up to 15,600 recycled plastic bottles per 100sqm*.

| PRODUCT RANGE | PACK SIZES | | | | | | | |
|---------------|---|---|-----------------|---------|------------------------|---------------|-----------------|--------------------|
| |  |  | Density (kg/m3) | R-Value | Nominal thickness (mm) | Dimensions | Pieces per pack | Area per pack (m2) |
| Wall Sections | ✓ | ✓ | 16.67 | R 1.9 | 90 | 360mm x 760mm | 9 | 2.46 |
| | ✓ | ✓ | 16.67 | R 1.9 | 90 | 560mm x 760mm | 6 | 2.55 |
| | ✓ | ✓ | 60.00 | R 2.0 | 70 | 360mm x 760mm | 12 | 3.28 |
| | ✓ | ✓ | 60.00 | R 2.0 | 70 | 560mm x 760mm | 8 | 3.4 |
| | ✓ | ✓ | 22.22 | R 2.0 | 90 | 360mm x 760mm | 9 | 2.46 |
| | ✓ | ✓ | 22.22 | R 2.0 | 90 | 560mm x 760mm | 6 | 2.55 |
| | ✓ | ✓ | 26.67 | R 2.2 | 90 | 360mm x 760mm | 9 | 2.46 |
| | ✓ | ✓ | 26.67 | R 2.2 | 90 | 560mm x 760mm | 6 | 2.55 |
| | ✓ | ✓ | 40.00 | R 2.5 | 90 | 360mm x 760mm | 9 | 2.46 |
| | ✓ | ✓ | 40.00 | R 2.5 | 90 | 560mm x 760mm | 6 | 2.55 |
| | ✓ | ✓ | 15.00 | R 2.8 | 140 | 360mm x 760mm | 18 | 4.92 |
| | ✓ | ✓ | 15.00 | R 2.8 | 140 | 560mm x 760mm | 12 | 5.10 |
| | ✓ | | 20.70 | R 3.2 | 140 | 360mm x 760mm | 18 | 4.92 |
| | ✓ | | 20.70 | R 3.2 | 140 | 560mm x 760mm | 12 | 5.10 |

KEY FEATURES

- High performance, semi-rigid 100% polyester airway sections.
- Provides thermal and acoustic benefits for residential and commercial applications.
- Mammoth products contain recycled polyester fibres. Mammoth wall insulation uses up to 15,600 recycled plastic bottles per 100sqm*.
- Assists in absorbing noise to create a quieter environment.
- Easy and safe to install - simply squeezes between joists with no need for staples.
- Heat bonded - no glues or binders that can break down so it won't sag or settle over time.
- Mammoth is moisture, mould and mildew resistant.
- Mammoth sections come in pre-cut sections of varying widths.
- Sections can easily be cut using wide blade craft knives or specialised insulation saws.
- Self-supporting for a smooth friction fit without creases, folds or tucks.
- 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.
- Red List Free - no formaldehyde or pesticides added.
- Mammoth wall sections are BRANZ 797 Appraised and have Environmental Choice certification.
- Long lasting, Mammoth insulation is performance warranted for 50 years (T&Cs apply).
- Mammoth wall insulation products have an ODP of zero.
- Mammoth products are made in a zero waste production process and are fully recyclable.
- NZ Green Building Council approved.
- Manufactured by InZone Industries Ltd, NZ's first and only Toitū net carbonzero certified insulation manufacturing organisation.

**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) 15 years Clause B2.3.1 b) 50 years | 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 |
| ✓ Energy Efficiency | Clause H1.3.1(a) Clause H1.3.2 E | 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 | n/a | Polyester fibres are non-respirable |
| ✓ Fire Test | ISO9705 AS/NZS60695.2.11 AS/NZS60695.11.5 | Group1S Passed - Glow wire flammability test Passed - Test flames (Needle-flame test) |
| ✓ VOC Emission Safe ³ | Total VOC ≤ 0.5mg/m ³ | < 0.005mg/m ³ - level below detection ⁴ |
| | Formaldehyde ≤ 0.06mg/m ³ | < 0.009mg/m ³ - 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) |

¹ Meet or contribute to these provisions when designed, used, installed and maintained in accordance with BRANZ Appraisal 797.

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 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.

INSTALLATION & WARRANTY

Installation

Mammoth Wall Sections must be installed according to the manufacturer's guidelines and in accordance with NZS 4246 (Energy Efficiency - Installing Insulation in Residential Buildings). Installation Instructions for Mammoth Wall Sections can be found at www.mammoth.co.nz/downloads Contact us on 0800 MAMMOTH for more details.

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/downloads for terms and conditions.

BRANZ Appraised

Mammoth Wall Insulation Sections have been tested by, and is covered by BRANZ Appraisal 797.



Correct as at 10 August 2022