



# Underfloor Insulation Sections

Mammoth underfloor insulation are self-supporting medium density pads that squeeze into place between joists without staples or other fixings.

Cut to a variety of widths, Mammoth® polyester underfloor insulation sections are moisture resistant, high performance options that are safer to install than stapled solutions. Our insulation sections have a range of R-values of up to R3.8 (when double layered).

Mammoth products contain recycled polyester fibres. Mammoth underfloor section insulation uses up to 7,800 recycled plastic bottles per 100sqm\*.

| PRODUCT RANGE           |   |  |                 |         | PACK SIZES             |                 |                 |                    |
|-------------------------|---|--|-----------------|---------|------------------------|-----------------|-----------------|--------------------|
|                         | <br>Eco Choice<br>Aotearoa | <br>BRANZ Appraised | Density (kg/m3) | R-Value | Nominal thickness (mm) | Dimensions (mm) | Pieces per pack | Area per pack (m2) |
| Underfloor Sections     | ✓   | ✓  | 16.67           | R 1.9   | 90                     | 370 x 1140      | 16              | 6.75               |
|                         | ✓   | ✓  | 16.67           | R 1.9   | 90                     | 425 x 1140      | 16              | 7.75               |
|                         | ✓   | ✓  | 16.67           | R 1.9   | 90                     | 475 x 1140      | 14              | 7.58               |
|                         | ✓   | ✓  | 16.67           | R 1.9   | 90                     | 580 x 1140      | 12              | 7.93               |
|                         | ✓   |  | 15              | R 2.8   | 140                    | 370 x 1140      | 10              | 4.21               |
|                         | ✓   |  | 15              | R 2.8   | 140                    | 425 x 1140      | 10              | 4.84               |
|                         | ✓   |  | 15              | R 2.8   | 140                    | 475 x 1140      | 10              | 5.41               |
|                         | ✓   |  | 15              | R 2.8   | 140                    | 580 x 1140      | 8               | 5.28               |
|                         |   |  | 35.7            | R 3.4   | 140                    | 370 x 1140      | 10              | 4.21               |
|                         |   |  | 35.7            | R 3.4   | 140                    | 425 x 1140      | 10              | 4.84               |
|                         |   |  | 35.7            | R 3.4   | 140                    | 475 x 1140      | 10              | 5.41               |
|                         |   |  | 35.7            | R 3.4   | 140                    | 580 x 1140      | 8               | 5.28               |
| Double Layer - R1.9 x 2 | ✓   |  | 16.67           | R 3.8   | 180                    | 370 x 1140      | 16              | 6.75*              |
|                         | ✓   |  | 16.67           | R 3.8   | 180                    | 425 x 1140      | 16              | 7.75*              |
|                         | ✓   |  | 16.67           | R 3.8   | 180                    | 475 x 1140      | 14              | 7.58*              |
|                         | ✓   |  | 16.67           | R 3.8   | 180                    | 580 x 1140      | 12              | 7.93*              |

For any system - single or double layered - the joist depth must be greater than the insulation thickness.

\* For Double Layering - Double the quantity of product is required. For instance, a 100m2 area requires 200m2 of product to achieve a double layer.

## KEY FEATURES

- High performance, semi-rigid 100% polyester airlay sections.
- Self-supporting for a smooth friction fit without creases, folds or tucks.
- Easy and safe to install - simply squeezes between joists with no need for staples.
- Mammoth underfloor section insulation uses up to 7,800 recycled plastic bottles per 100sqm. Based on 500ml PET Bottles (16.2g).
- Mammoth sections come in pre-cut sections of varying widths and lengths.
- Lightweight and easy to handle - can easily be cut using wide blade craft knives or specialised insulation saws.
- Unaffected by moisture, Mammoth insulation will continue to perform once dried out.
- Assists in absorbing noise to create a quieter environment.
- Non-corrosive - will not affect electrical wiring underfloor.
- 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.
- Mammoth underfloor sections are BRANZ 802 appraised and have Environmental Choice certification. NZ Green Building Council approved.

- Long lasting, Mammoth insulation is performance warranted for 50 years (T&Cs apply).
- Mammoth underfloor 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   |
|----------------------------------|--|---|
| <b>New Zealand Building Code</b> |  |   |
| ✓ Durability                     | Clause B2.3.1 a) 15 years<br>Clause B2.3.1 b) 50 years | Ref: BRANZ Appraisal No 802 <sup>1</sup>  |
| ✓ Internal Moisture              | Clause E3.3.1  | Ref: BRANZ Appraisal No 802 <sup>1</sup>  |
| ✓ Hazardous Building Materials   | Clause F2.3.1  | Ref: BRANZ Appraisal No 802 <sup>1</sup>  |
| ✓ Energy Efficiency              | Clause H1.3.1(a)<br>Clause H1.3.2 E                    | Ref: BRANZ Appraisal No 802 <sup>1</sup>  |
| <b>Product Safety</b>            |  |   |
| ✓ Non Toxic                      | OSH Health and Safety Guidelines <sup>2</sup>          | Polyester products are 'non-toxic'  |
| ✓ Non Irritant                   | OSH Health and Safety Guidelines <sup>2</sup>          | Polyester products are 'non-irritant'   |
| ✓ Respiratory Safe               | n/a  | Polyester fibres are non-respirable   |
| ✓ Fire Test                      | ISO9705  | Group1S   |
|                                  | AS/NZS60695.2.11                                       | Passed - Glow wire flammability test  |
|                                  | AS/NZS60695.11.5                                       | Passed - Test flames (Needle-flame test)  |
| ✓ VOC Emission Safe <sup>3</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   |
| ✓ 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> Meet or contribute to these provisions when designed, used, installed and maintained in accordance with BRANZ Appraisal 802.

<sup>2</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>3</sup> Mammoth has been tested under ASTM D5116. Based on test results for a product with similar nominal weight.

<sup>4</sup> 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 Underfloor Insulation 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 Underfloor Insulation Sections can be found at [www.mammoth.co.nz/downloads](http://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](http://www.mammoth.co.nz/downloads) for terms and conditions.

### BRANZ Appraised

Mammoth Underfloor Insulation Sections have been tested by, and is covered by BRANZ Appraisal 802.



Correct as at 03 March 2024