



SKILLION CEILING INSULATION





APPLICATION

Mammoth™ Skillion Sections are designed to promote high thermal performance in modern skillion roof designs. The high density sections are made from 100% polyester with a controlled loft to ensure the required 25mm air ventilation gap to the roof is always maintained. They are Red List Free and allow a smooth crease-free friction-fit to enhance thermal performance.

FEATURES & BENEFITS

- Semi-rigid 100% Airlay polyester sections.
- Controlled loft to provide assured air-space to roof lining.
- Self-supporting, friction fit.
- Red List Free - no formaldehyde or pesticides added.
- Heat bonded - no glues or resins used in manufacture.
- Moisture resistant in the event of roof leaks. Will continue to perform once dried out.
- Safe and easy to work with.
- Non-irritant and non-toxic - no precautions are required for handling the product.
- Mammoth Skillion sections are BRANZ appraised.
- Performance warranted for 50 years (Ts&Cs apply).
- Made in New Zealand by a carboNZero certified organisation.

PRODUCT RANGE

| PRODUCT RANGE |  |  | NRC | PRODUCT R-VALUE | NOMINAL THICKNESS (MM) | DIMENSION (MM) | PIECES PER PACK | TOTAL AREA (M2) |
|-------------------|---|---|-----|-----------------|------------------------|----------------|-----------------|-----------------|
| Skillion Sections |  |  | | R 2.9 | 115 | 560 x 1200 | 3 | 2.02 |
| | | | | R 2.9 | 115 | 860 x 1200 | 5 | 5.16 |
| | | | | R 3.2 | 165 | 570 x 1200 | 5 | 3.42 |
| | | | | R 3.2 | 165 | 870 x 1200 | 4 | 4.18 |

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 (2014) ¹ |
| ✓ Internal Moisture | Clause E3.3.1 | Ref: BRANZ Appraisal No 797 (2014) ¹ |
| ✓ Hazardous Building Materials | Clause F2.3.1 | Ref: BRANZ Appraisal No 797 (2014) ¹ |
| ✓ Energy Efficiency | Clause H1.3.1(a) Clause H1.3.2 E | Ref: BRANZ Appraisal No 797 (2014) 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 | AS 1530 Part 3: | |
| | Ignitability | 0 (Scale 0:20) |
| | Spread of Flame | 0 (Scale 0:10) |
| | Heat Evolved | 0 (Scale 0:10) |
| | Smoke Developed | 3 (Scale 0:10) |
| | 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/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 meeting these provisions when designed, used, installed and maintained in accordance with the statements and conditions of BRANZ Appraisal 797 (2014)

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.

SPECIFICATION & INSTALLATION

Installation

Mammoth Skillion Ceiling Insulation Sections must be installed according to the manufacturer's guidelines and in accordance with NZ Standard NZS4246 (Energy Efficiency - Installing Insulation in Residential Buildings). Installation Instructions for Mammoth Skillion Ceiling Sections can be found at www.mammoth.co.nz/downloads. For further information contact Mammoth on 0800 MAMMOTH

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. Terms & conditions apply. Read the full warranty at www.mammoth.co.nz

BRANZ Appraised

Mammoth Skillion Roof Sections have been tested by BRANZ and is covered by BRANZ Appraisal 797 (2014).

™ Mammoth is a trademark of InZone Industries Limited