Fletcher Insulation
Building Better, Together

Technical data sheet

# Firmasoft® Batts: Ceiling

## Non Combustible thermal glasswool insulation for residential ceiling applications

### Description

FirmaSoft® Ceiling Batts are made from flexible and resilient glasswool for thermal and acoustic insulation of residential ceilings. FirmaSoft® Batts are available in various sizes and densities to fit standard timber spacings.

### Application

FirmaSoft® Ceiling Batts are used in ceiling applications when constructing new homes or retrofitting existing buildings for increased thermal efficiency. The FirmaSoft® ceiling batts insulation range is available in various thermal R-values and dimensions, ensuring there is an effective and efficient product solution for every application. FirmaSoft® Batts, renowned for their firmness, are low itch, easy to cut and designed to friction fit standard ceiling joist spacings.

### Features and benefits

| | | |
|---|---|---|
| **Firm to fit** | → | Friction fitted to remain in place without slumping for continual thermal performance. |
| **Softer to touch** | → | Comfortable to handle during installation. |
| **Low dust formula** | → | Reduced dustiness and mess during installation. |
| **Recover to their natural thickness quickly** | → | To meet required thermal performance. |
| **Australian made** | → | Made in Australia for Australian conditions. |
| **Codemark Certified** | → | Assurance that product meets energy efficiency provisions of the National Construction Code (NCC). |

### Product data

| Material R-value m²K/W | Thickness mm | Width mm | Length mm | Batts per pack | m² per pack | Coverage per pack m² | Packs per bale | Product code |
|---|---|---|---|---|---|---|---|---|
| R3.5 | 175 | 430 | 1160 | 16 | 8.0 | 9.0 | 4 | 4006079 |
| | | 580 | 1160 | 10 | 6.7 | 7.6 | 6 | 4006080 |
| R4.1 | 215 | 430 | 1160 | 10 | 5.0 | 5.6 | 5 | 4006081 |
| | | 580 | 1160 | 10 | 6.7 | 7.6 | 6 | 4006082 |
| R5.0 | 220 | 430 | 1160 | 8 | 4.0 | 4.5 | 5 | 4006083 |
| | | 580 | 1160 | 8 | 5.4 | 6.1 | 5 | 4006084 |
| R6.0 | 250 | 430 | 1160 | 6 | 3.0 | 3.4 | 5 | 4020903 |
| | | 580 | 1160 | 6 | 4.0 | 4.5 | 5 | 4020892 |

FIRMA Soft® BATTS Low Dust Formula

## Physical properties

| Property | Test method/standard | Result | Unit |
|---|---|---|---|
| Thermal resistance R-value | AS/NZS 4859.1 | Complies | $m^2K/W$ |
| Moisture absorption | When exposed to environmental conditions of 50°C and 95% relative humidity for four days | < 0.2 | % by volume |
| Fungi resistance of insulation materials | ASTM C1338-14 | Pass (no growth) | |

## Fire hazard properties

FirmaSoft® Ceiling Batts exhibit the following characteristics when tested in accordance with the following standards:

| Property | Test method/standard | Result |
|---|---|---|
| Combustibility | AS 1530.1 | Non-combustible |
| Early Fire Hazard Indices<br>Ignitability Index<br>Spread of Flame Index<br>Heat Evolved Index<br>Smoke Developed Index | AS/NZS 1530.3 | <br>0<br>0<br>0<br>0–1 |
| BAL Compliance | AS 3959 | Low–FZ |

## Product limitations

- **Important: Do Not Modify This Product:** Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed.
- This product does not have a Group Number in accordance with AS 5637.1 (NCC 2022 Volume 1 S7C4, NCC 2025 Volume 1 S7C4) and is not suitable as an exposed internal wall and ceiling lining where a group number is required.
- Unfaced glasswool is not a water or vapour barrier and is not suitable as a water or vapour control.
- The maximum service temperature for this product is 150°C.
- Check the plasterboard ceiling manufacturers guide for any weight limitations on ceilings framing or linings prior to installation.

## Compliance

### NCC 2022

When correctly specified and installed, the product complies with below NCC clauses and relevant standards:

- Complies with AS/NZS 4859.1 as referenced in NCC 2022 Volume 1 J4D3(1) and ABCB Housing Provisions section 13.2.2(1).
- Classified as non-combustible when tested or assessed in accordance to AS 1530.1, therefore complies with the requirements of NCC clause C2D10 (1).
- When tested or assessed to AS/NZS 1530.3 this product does not exceed the ‘Spread of Flame’ or ‘Smoke Developed’ indices as required by NCC 2022 Volume 1 S7C7 for insulation materials other than sarking material.

### NCC 2025

When correctly specified and installed, the product complies with below NCC clauses and relevant standards:

- Complies with AS/NZS 4859.1 as referenced in NCC 2025 Volume 1 J4D3(1) and ABCB Housing Provisions section 13.2.2(1).
- Classified as non-combustible according to AS 1530.1, therefore complies with the requirements of NCC clause C2D10 (1).
- When tested or assessed to AS/NZS 1530.3 this product does not exceed the ‘Spread of Flame’ or ‘Smoke Developed’ indices as required by NCC 2025 Volume 1 S7C7 for insulation materials other than sarking material.

## Maintenance and conditions of use

- Product must be kept dry and not be exposed to weather in any condition including prior, during and after installation.
- Ensure product is protected from physical damage and avoid packaging being stored under UV light (such as direct sunlight) for extended periods.
- The product must be installed without compression to maintain its claimed R-value.
- When product is installed as per the product installation guidelines, no further maintenance is required for this product.

## Health and safety

Fletcher Insulation glasswool products are manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. Refer to Fletcher Insulation SUIS for more information.

## Environmental properties

FirmaSoft Batts are manufactured from up to 80% recycled content which would otherwise go to landfill and be unsuitable for alternative manufacturing processes.

Fletcher Insulation avoids the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of its FBS-1 Glasswool Bio-Soluble Insulation®.

The use of these Fletcher Insulation products provides the use of Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

## Technical specification

**When specifying, please state the following:**
The insulation material shall be Fletcher Insulation FirmaSoft® Batts: Ceiling R_____$m^2$ K/W (Material R-value) _____ (thickness) x _____ (width) x _____ (length) mm.

**The following performance attributes must be specified:**

- Product must be FBS-1 Biosoluble
- Product must recover after packaging is removed, to the requirements of AS 4859.1

## Installation instructions

For the correct installation method, follow the Installation Guidelines available from insulation.com.au

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