

Soundbreak™

High performance non-combustible acoustic glasswool insulation

Description

Soundbreak™ batts are made from high density, flexible and resilient glasswool, which is specifically designed to provide exceptional acoustic insulation performance of residential ceilings, walls and midfloors. Soundbreak™ batts are available in various sizes to fit standard timber and steel stud/joist spacings, with green dye added for easier identification when installed.

Application

Soundbreak™ batts with its high nominal density of 24–32kg/m³ makes it ideal for reducing sound transfer through walls (both internal and external). Internal walls between theatre rooms, bathrooms, laundries and kitchens are just some of the areas where internal wall insulation could be beneficial. The high density also aids in achieving higher thermal R-values for external walls with limited cavity spaces. The Soundbreak™ batts insulation range is available in various thermal R-values and dimensions ensuring there is an effective and efficient product solution for all residential applications.

Soundbreak™ batts, renowned for their firmness, are low itch, easy to cut and friction fit standard studs/joists to make homes feel cooler in summer, warmer in winter and acoustically quiet all year round.

Product limitations of use

- Not to be used/exposed to weather in any condition including prior, during and after installation
- Check the plasterboard ceiling manufacturers guide for any weight limitations on ceilings
- This product cannot be used as a water or vapour barrier
- Modifications not permissible, as suitability and/or compliance may be compromised
- Product needs to be allowed to fully recover before and after use (cannot be used crushed)

Features and benefits

| | | |
|---|---|--|
| Higher density glasswool batts | → | Helps to reduce sound transfer through external and internal walls to improve acoustics in a home. |
| Achieves higher thermal R-Values with a lower batt thickness | → | Provides thermal comfort for buildings with a smaller or limited cavity space. |
| Firm and easy to cut and install | → | Will friction fit firmly in place between wall studs and joists to deliver high performance thermal and acoustic efficiency. |
| Codemark certified | → | Assurance that product meets energy efficiency provisions of the National Construction Code (NCC). |

Product data

| Material R-value m ² K/M | Nominal thickness mm | Width mm | Length mm | No. of batts per pack | m ² per pack | Coverage per pack m ² | No. of packs per bale | Old Product code | New product code |
|-------------------------------------|----------------------|----------|-----------|-----------------------|-------------------------|----------------------------------|-----------------------|------------------|------------------|
| R1.7 | 60 | 430 | 1160 | 12 | 5.99 | 6.9 | 5 | 902291 | 4010564 |
| | | 580 | 1160 | 12 | 8.07 | 9.1 | 5 | 902292 | 4010565 |
| R2.0 | 70 | 430 | 1160 | 10 | 4.99 | 5.6 | 5 | 902293 | 4010566 |
| | | 580 | 1160 | 10 | 6.73 | 7.6 | 5 | 902294 | 4010567 |
| R2.5 | 90 | 430 | 1160 | 8 | 3.99 | 4.5 | 5 | 902296 | 4010568 |
| | | 580 | 1160 | 8 | 5.38 | 6.1 | 5 | 902297 | 4010569 |
| R2.7 | 90 | 430 | 1160 | 8 | 3.99 | 4.5 | 5 | 902298 | 4010570 |
| | | 580 | 1160 | 8 | 5.38 | 6.1 | 5 | 902299 | 4010571 |
| | | 600 | 1200 | 8 | 5.76 | 5.8 | 5 | 902300 | 4010572 |
| R3.1 | 110 | 430 | 1160 | 6 | 2.99 | 3.4 | 5 | 902301 | 4010573 |
| | | 580 | 1160 | 6 | 4.04 | 4.5 | 5 | 902302 | 4010574 |

Physical properties

| Properties | Test method/standard | Result | Unit |
|--|----------------------|------------------|-------------|
| Maximum Service Temperature | ASTM C411/C447 | 340 | °C |
| Thermal Conductivity | AS/NZS 4859.1 | Complies | W/m.K |
| Moisture Absorption | ASTM C1104 | <0.2% | % by volume |
| Fungi Resistance of Insulation Materials | ASTM C1338-14 | Pass (No growth) | - |

Fire hazard properties

Soundbreak™ 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 | AS/NZS 1530.3 | 0 |
| Ignitability Index | | 0 |
| Spread of Flame Index | | 0 |
| Heat Evolved Index | | 1 |
| Smoked Developed Index | | |
| BAL Compliance | AS 3959 | Low-FZ |

Compliance NCC 2019

When correctly specified and installed, the product complies or assists to comply with below NCC clauses and relevant standards.

- Complies with AS/NZS 4859.1 as referenced in NCC 2019, Volume 1 Clause J1.2(a) and NCC 2019, Volume 2 Clause 3.12.1.1.
- Thickness and density specifications cover the requirements of the Acceptable forms of Construction for sound insulation according to NCC 2019 Volume 1, Specification F5.2 and NCC 2019 Volume 2, 3.8.6.1.
- Classified as Non-Combustible according to AS 1530.1, therefore complies with the requirements of NCC Volume 1 C1.9(a) and, wherever a non-combustible insulation material is required according to NCC 2019 Volume 2.
- When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC 2019 Volume 1, Clause C1.10 (ix) and Specification C1.10 Clause 7 for insulation materials.
- Complies with the requirements of AS3959 Bushfire Attack Level Low-FZ in walls, floors and ceilings.
- Complies with all state variations to the NCC 2019.

Compliance NCC 2022

When correctly specified and installed, the product complies or assists to comply 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 3.12.2(1).
- Thickness and density specifications cover the requirements of the Acceptable forms of Construction for sound insulation according to NCC 2022 Volume 1, Specification 28 and NCC 2022 Volume 2, ABCB Housing Provisions Part 10.7.
- Classified as non-combustible according to AS 1530.1, therefore complies with the requirements of NCC Clause C2D10 (1.) and wherever a non-combustible insulation material is required according to NCC 2022 Volume 2.
- When tested to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC Clause C2D11 (1)(i) and Specification S7C7 for insulation materials other than sarking material.

Acoustic performance

Sound absorption

Soundbreak™ batts tested achieve the following sound absorption coefficients when tested in accordance with AS ISO 354.

| Material R-value | Nominal thickness mm | Sound absorption coefficients at frequencies (Hz) of: | | | | | | | | | | NRC | α _w |
|------------------|----------------------|---|------|------|------|------|------|------|------|------|------|------|----------------|
| | | 100 | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 5000 | | | |
| R2.0 | 70 | 0.26 | 0.23 | 1.03 | 1.11 | 1.07 | 1.04 | 1.08 | 1.02 | 1.06 | 1.05 | 1.00 | |
| R2.5 | 90 | 0.36 | 0.39 | 1.18 | 1.11 | 1.05 | 1.09 | 1.06 | 1.08 | 1.09 | 1.1 | 1.00 | |
| R2.7 | 90 | 0.38 | 0.4 | 1.16 | 1.1 | 1.05 | 1.07 | 1.08 | 1.08 | 1.06 | 1.1 | 1.00 | |
| R3.1 | 110 | 0.43 | 0.63 | 1.21 | 1.13 | 1.1 | 1.08 | 1.05 | 1.09 | 1.11 | 1.15 | 1.00 | |

Flow Resistivity

Soundbreak™ batts tested achieve the following Flow Resistivities when tested in accordance with ASTM C522.

| Property | Test method/standard | Thicknesses mm | | | | | Unit |
|--|----------------------|----------------|-----|-----|-----|-----|---------|
| | | 60 | 70 | 90 | 90 | 110 | |
| Airflow resistance of acoustic materials | ASTM C522 | 1.7 | 2.0 | 2.5 | 2.7 | 3.1 | Rayls/m |

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

Soundbreak™ batts are manufactured from up to 80% recycled content which would otherwise go into 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® and Sisalation® reflective foil products. 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.

Maintenance and conditions of use

- Product should be kept dry, not to be exposed to weather in any condition including prior, during and after installation.
- Product needs to be correctly installed in the right stud width and depth.
- Product should be installed without compression to keep its claimed R-value.
- If used with any other products except Sisalation®, confirmation of suitability must be reviewed
- When product is installed as per the product installation guidelines, no further maintenance is required for this product.

Technical specification

When specifying, please state the following:

The insulation material shall be Fletcher Insulation Soundbreak™ R _____ m²K/W (Material R-value) _____ (thickness) x _____ (width) x _____ (length) mm. Compliant with the thermal testing requirements of AS/NZS 4859.1, and non-combustible according to AS1530.1 (R2016).

The following performance attributes must be specified:

- Product must be FBS-1 Biosoluble.
- Product must recover to the requirements of AS/NZS 4859.1.
- Where sound performance is required for the project, Sound Absorption level shall be _____.

Installation instructions

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

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