

SonoBatts® Premium Acoustic Insulation

Product description and typical applications

SonoBatts® are the premium range of sound control insulation made from high density, resilient glasswool, sometimes referred to as mineral wool. With a nominal density of 32Kg/m³ SonoBatts are an ideal alternative to Rockwool for timber framed wall cavities, ceiling overlays and between floors for use as sound absorbing materials for home theatres and in architectural acoustic applications such as partitions, screens and baffles. SonoBatts are designed to provide optimum performance solutions to 'problem' acoustic applications, particularly when dealing with low frequency sounds. SonoBatts also provide excellent thermal performance. The 100mm R3.0 product is an ideal solution for ceilings of homes under flight paths, combined with Permastop® or Vapa-Chek™ (foil faced blanket insulation) under metal deck roofing.

Physical characteristics

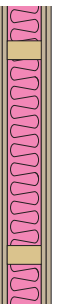
Nominal R-value (m ² k/w)	Batt Size (mm)	Nominal Thickness (mm)	Batts Per Pack	Area Per Pack (m ²)	Coverage Per Pack (m ²)
R1.5	1160 x 430	50	8	4.0	4.5
	1160 x 580	50	8	5.4	6.1
R2.1	1160 x 430	70	8	4.0	4.5
	1160 x 580	70	8	5.4	6.1
R2.7	1160 x 430	90	6	3.0	3.4
	1160 x 580	90	6	4.0	4.7
R3.0	1160 x 430	100	6	3.0	3.4
	1160 x 580	100	6	4.0	4.7

Product must be installed in accordance to manufacturer instructions - refer to back of pack or www.insulation.com.au for details.

Rw 43 Tested wall system

CSIRO acoustic testing laboratory has confirmed that the wall system consisting of 90mm timber stud at 600mm centres with one layer of 10mm standard plasterboard on each side and 90mm SonoBatts infill will achieve an Rw43. The same wall system without insulation achieved Rw34, representing a 9 dB decrease in noise transmission with SonoBatts.

Using Acousti-Max software, Fletcher Insulation Technical Services are able to rapidly compare the noise transmission loss for different types of wall construction including concrete, brick, hebel, timber and steel with various types of wall linings and insulation infill to find out the optimum acoustic performance.



Green Star compliant

The Green Building Council of Australia (GBCA) strongly recommends third party validation of insulation products environmental merit by GECA - Good Environmental Choice Australia (www.gbca.org.au). All GECA certified products automatically achieve 100% product score in the Green Star calculators. GECA scientific research is based on function and overall environmental and human health in conformance to ISO14024. GECA certification provides a clear, credible guide to products that are sustainable and improve the quality of the environment.

Fletcher Insulation is committed to providing environmentally sustainable products. Fletcher Insulation products have Zero Ozone Depleting Potential in both manufacture and composition, complying with the GreenStar Insulant ODP Emissions credit requirement. Air quality is maintained with total Volatile Organic Compound (VOC) emissions below quantifiable levels.

AS/NZS 4859.1:
2002 - Including
Amendment 1
Materials for the
Thermal Insulation of
Buildings

SonoBatts comply with the Energy Efficiency provisions of the BCA for all types of thermal insulation to be certified by a NATA accredited organisation.



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FLI - 2007
GECA 33-2007 - Building Insulation
www.geca.org.au

Environmental Choice Australia
Certified Product

PINK SONOBATTS SILENCER+
Premium Acoustic Insulation

Fletcher
Insulation™

We safely deliver extraordinary
value to our customers

Sound absorption

SonoBatts have the following sound absorption coefficients when tested in accordance with AS1045 by the Reverberation Room method. Tests were carried out with no airspace behind the samples. Results shown below are for 50mm and 100mm thick *SonoBatts* only.

Nominal thickness	Sound Absorption Coefficients at frequencies (Hz) of:					
	125	250	500	1000	2000	NRC
50	0.19	0.61	1.11	1.12	1.06	1.00
100	0.54	1.11	1.23	1.12	1.02	1.10

AS1530.3 Early fire hazard properties of materials

SonoBatts exhibit the following characteristics when tested in accordance with AS1530 Part 3:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-1

Moisture resistance

In the event of *SonoBatts* becoming wet, they should be dried prior to installation to obtain maximum performance and prevent damage to other building elements. *SonoBatts* absorb less than 0.2% moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

Alkalinity

When tested in accordance with British Standard 3958, *Fletcher Insulation* glasswool products are slightly alkaline pH9 (neutral is pH7). They will not promote or accelerate the corrosion of steel or galvanised steel studs provided they are protected from external contamination.

Maximum service temperature

Fletcher Insulation SonoBatts have a maximum service temperature of 340°C.

Specification notes

State the following:

- Product name - *SonoBatts*
- Material R-Value required
- Joist or stud spacing
- Area involved.



The production of environmentally sustainable FBS-1 Glasswool Bio-Soluble Insulation utilizes approximately 70% recycled waste glass.



Low Allergen content with the ability to moderate temperature changes.



Fletcher Insulation glasswool products are manufactured from FBS-1 Bio-Soluble Glass Wool™. FBS-1 Bio-Soluble Glass Wool™ is not classified as hazardous according to the criteria of the Australian Safety and Compensation Council (formerly NOHSC), Approved Criteria for Classifying Hazardous Substances (NOHSC: 1008) 3rd Edition. Fletcher Insulation glasswool is classified as safe to use, refer to our MSDS.



Fletcher
Insulation™

NOTE: Fletcher Insulation Pty. Limited. reserves the right to change product specifications without prior notification. Information in this Publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but Because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given Or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application.

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