



BRADFORD SOUNDSCREEN™ BATTS

Product Description

Bradford SoundScreen™ is a high density insulation product specifically made for wall, floor and ceiling applications where superior acoustic performance is required. It is manufactured from a specially formulated mineral wool and bonded with a thermosetting resin. The wall batt range (which can also be used on suspended floors) is formulated with water repellent to limit moisture ingress into buildings.

The product is a light brown – olive green colour and comes in a range of widths designed to suit standard stud or joist centres of 450mm and 600mm. For timber studs the 430mm and 580mm products should be used whereas for 600mm steel stud applications a 600mm wide SoundScreen is also available.

Bradford SoundScreen is supplied in strong polythene packaging and six (6) bags are typically contained within a multi-pack wrap for ease of transport and storage.

Bradford SoundScreen can be used on external or internal walls where special acoustic treatment is warranted. When used on external walls, the R-value of the product will also be important in order that Building Code requirements for energy efficiency are met. Bradford SoundScreen products have the declared material R-value shown on every pack and they comply with the Australian & New Zealand Standard AS/NZS4859.1 – Materials for the thermal insulation of buildings.

All SoundScreen products are non-combustible when tested to AS1530-1.

Applications

Product	Applications	Sound Reduction
SoundScreen R1.7	<ul style="list-style-type: none"> Internal and external wall cavities Floor and ceiling cavities 	Reduce sound transfer by up to 50 per cent
SoundScreen R2.0	<ul style="list-style-type: none"> Internal and external wall cavities Floor and ceiling cavities 	Reduce sound transfer by up to 70 per cent
SoundScreen R2.5	<ul style="list-style-type: none"> Internal and external wall cavities Floor and ceiling cavities 	Reduce sound transfer by up to 75 per cent
SoundScreen R3.1	<ul style="list-style-type: none"> Floor and ceiling cavities 	Reduce sound transfer by up to 85 per cent

SKU Table

Nominal Thickness (mm)	Standard Size (mm)	Pieces per Pack	m ² per Pack	Coverage per Pack (m ²)	Density	Product Codes
SoundScreen 1.7 for Walls, Floors and Ceilings						
60	430 x 1160	10	5.0	5.6	24	114201
60	580 x 1160	10	6.7	7.6	24	114202
SoundScreen 2.0 for Walls, Floors and Ceilings						
70	430 x 1160	8	4.0	4.5	25.71	114206
70	580 x 1160	8	5.4	6.1	25.71	114207
70	600 x 1200	8	5.8	5.8	25.71	114177
SoundScreen 2.5 for Walls, Floors and Ceilings						
88	430 x 1160	6	3.0	3.4	24	114184
88	580 x 1160	6	4.0	4.5	24	114178
SoundScreen 3.1 for Floors and Ceilings						
110	430 x 1160	5	2.5	2.8	24	114251
110	580 x 1160	5	3.4	3.8	24	114252

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Physical Properties

Maximum Service Temperature		350 °C
Fire Hazard Properties	When tested in accordance to AS1530 Part 3-1999	<ul style="list-style-type: none"> • Ignitability: 0 • Spread of flame 0 • Heat Evolved 0 • Smoke Developed 0-1
Combustibility	When tested in accordance with AS 1530 Part 1 - 1994	Not deemed combustible
Corrosion Resistance	When tested in accordance with BS 3958: Part 5- 1969	pH 7.5-8.0
Moisture Absorption	When placed in a controlled atmosphere of 50 °C and 95% relative humidity for 96 hours.	Less than 0.2% by volume
Flow Resistivity	When tested in accordance with ASTM C522-03	10500 - 13500 Rayls/m
Sample Specification	The insulation material should be SoundScreen, non combustible insulation as manufactured by Bradford Insulation, having a material R-value of R () and having a nominal thickness (). The nominal thickness shall be equal to or less than the cavity to which the insulation will be installed so as to not to apply pressure to wall cladding surface. For installation specifications refer to the relevant Application Brochure or the information on the back of pack.	

Acoustic Performance

The following acoustic performance can be achieved when installed to the follow wall applications:

CSR 924: Std 250mm Brick Veneer construction, 90mm timber stud frame @600mm centres, 1 x 10mm Gyprock Soundchek, SoundScreen R2.0 wall batt installed within stud cavity – Rw60.

CSR 305: Std 110mm internal plaster wall construction, 90mm timber stud frame at 600mm centres, both sides 1 x 10mm Gyprock standard recessed edge plasterboard, with:

- No insulation Rw32
- R2.0 – 70mm SoundScreen in the stud wall cavity – Rw42
- R2.5 – 88mm SoundScreen in the stud wall cavity – Rw43

Health & Safety

Bradford SoundScreen is not classified as hazardous according to the criteria of the ASCC (formally NOHSC) guidelines. The International Agency for Research into Cancer (IARC) has determined that Bradford SoundScreen insulation is not classed as carcinogenic.

Bradford SoundScreen products have been endorsed by the National Asthma Council Australia ‘Sensitive Choice’ Program as suitable for homes of asthma and allergy sufferers.

Sound Absorption

	Frequency (Hz)	125	250	500	1000	2000	4000	NRC #	α_w ^
R1.7 SoundScreen 60mm	Sound Absorption Coefficient, α_s *	0.29	0.65	1.11	1.15	1.05	0.94	1.00	
	Practical Sound Absorption Coefficient, α_p ^	0.30	0.70	1.00	1.00	1.00	1.00		1.00
R2.0 SoundScreen 70mm	Sound Absorption Coefficient, α_s	0.27	0.91	1.12	1.01	1.02	0.98	1.00	
	Practical Sound Absorption Coefficient, α_p	0.30	0.85	1.00	1.00	1.00	1.00		1.00
R2.5 SoundScreen 88mm	Sound Absorption Coefficient, α_s	0.38	1.04	1.18	1.08	1.05	0.97	1.10	
	Practical Sound Absorption Coefficient, α_p	0.40	1.00	1.00	1.00	1.00	1.00		1.00
R3.1 SoundScreen 110mm	Sound Absorption Coefficient, α_s	0.54	1.24	1.20	1.09	1.06	1.11	1.15	
	Practical Sound Absorption Coefficient, α_p	0.60	1.00	1.00	1.00	1.00	1.00		1.00

* Sound Absorption Coefficients, α_s determined in accordance with AS ISO 354-2006

Noise Reduction Coefficient, NRC calculated in accordance with ASTM C423-90a

^ Practical Sound Absorption Coefficients, α_p and Weighted Sound Absorption Coefficient, α_w calculated in accordance with AS ISO 11654-2002



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