

# NOISE CONTROL BATTS™

## Interior Acoustic Insulation for Walls & Floors

### PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

Insulation Solutions™ *Noise Control Batts* deliver excellent acoustic performance for commercial and domestic applications. They are ideal for installation in metal and timber stud wall systems, and as an infill between upper floors and ceilings.

Typical applications include ceilings and partitions in dwellings, schools, churches, shopping centres, factories or offices where the available range of sizes up to 2700mm enables extremely cost effective installations with a minimum of cutting and joining.

### PHYSICAL CHARACTERISTICS

Thickness (mm)	Dimensions* (mm)	Pieces per Pack	Area per pack (m²)
50	1160 x 430	16	7.98
50	1200 x 600	16	11.52
50	2700 x 600	6	24.30
75	1160 x 430	10	4.99
75	1200 x 600	10	7.20
75	2700 x 600	6	16.20
100	1200 x 600	8	5.76

\*NOTE: not all sizes are stocked in all locations. Check your local Insulation Solutions sales office for details.

### THERMAL PERFORMANCE

Thickness (mm)	Thermal Resistance m²K/W (R Value) @ 25°C
50mm	1.25
75mm	1.88
100mm	2.50

R-Values are based on calculation, assuming the thermal conductivity of Noise Control Batts at 25° is 0.04 W/mK

### EARLY FIRE HAZARD RATING

When tested in accordance with AS1530 Part 3 “Early Hazard Properties of Materials”, *Insulation Solutions Noise Control Batts* exhibit the following characteristics. Tests conducted by AWTA.

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

### SOUND ABSORPTION

*Noise Control Batts* have the following sound absorption co-efficients when tested in accordance with AS1045 by the Reverberation Room Method.

Tests were carried out with no air space behind the samples, and results are based on test reports from RMIT Department of Applied Physics.

Nominal thickness (mm)	Sound absorption coefficients (reverberation) at frequencies (Hz) of:						
	125	250	500	1000	2000	4000	NRC
50mm	0.20	0.45	0.80	0.95	0.95	0.95	0.80
75mm	0.25	0.75	1.05	1.00	0.95	1.00	0.95
100mm	0.30	0.80	1.10	1.00	0.95	1.00	0.95

### SPECIFICATION NOTES

State the following:

- Product Name: *Insulation Solutions Noise Control Batts*
- Thickness required or STC Rating of partition required.



A SOUND INVESTMENT

# NOISE CONTROL BATTS™

## Interior Acoustic Insulation for Walls & Floors

### SOUND INSULATION PERFORMANCE

A new method of rating walls floors and partitions for sound transmission has been introduced, called the “Weighted Sound Reduction Index” (Rw). This replaces “Sound Transmission Class” (STC) following release of the Building Code (B.C.A) Amendment 6 in 2000.

For both Rw & STC, the higher the number the better the sound

reduction. (The main difference between Rw and STC is the frequency range used in tests. STC is determined at frequencies from 125 to 4000 Hz. Rw is determined from 100 to 3150Hz).

For the majority of partitions, Rw and STC will be the same. A partition with poor low frequency performance may have an Rw 2 – 3 dB lower than STC.

Rw of typical Partition Systems using Noise Control Batts	No Insulation	With Insulation
1. Timber Stud Wall 90mm Studs at 450mm centres, with one layer of 13mm Boral Firestop® both sides. Resilient channel fixed under plaster on one side.	Rw 39	Rw 45 (50mm NCB's)
2. Steel Stud Wall 51mm CS Studs at 600mm centres, with two layers of 13mm Boral Firestop both sides.	Rw 43	Rw 50 (50mm NCB's)
3. Timber Upper Floor / Ceiling		
a) Plasterboard direct fixed - 19mm “structaflor” on 180mm deep floor joists at 450mm centres. 10mm standard core plaster screw fixed to joists	Rw 37	Rw 39 (100mm NCB's)
(b) Plasterboard fixed to resilient mounts and furring channel	Rw 40	Rw 44 (100mm NCB's)

*The indices provided are the expected performance to Australian Standard AS1191. “Acoustics – Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions” and rated according to AS/NZ 1276.*

### BIO-SOLUBILITY

The fibre used in this product is FBS-1 Bio-Soluble Glass Wool™ Insulation. This means that it dissolves in bodily fluids and is quickly cleared from the lungs. It complies with the test of short term biopersistence in Note Q of

[NOHSC: 10005 (1999)]. Glass Wool is classified as safe to use.



### SUSTAINABILITY

Sustainability...measures that satisfy the needs of people today while enhancing the quality of life for future generations. The demands on non-renewable resources for the production of energy are not sustainable without compromising the environment. Insulation, correctly specified and installed, is one of the most critical products in

improving energy efficiency and reducing the levels of greenhouse gas emissions. Insulation Solutions is committed to providing environmentally sustainable products and utilises up to 70% recycled waste glass in the production of Glass Wool Insulation.



FREECALL 1800 626 624

WEBSITE: [www.eurekainsulation.com.au](http://www.eurekainsulation.com.au)

