

Product Description

Tontine Ceiling Baffle is a polyester insulation material that comes in an easy to install pack compressed to 400 mm thickness containing 8 batts of 1200mm x 600mm dimension. Ceiling Baffle is a non-toxic and user friendly insulation, requiring no specific protective clothing, and will not corrode or crumble over time. The products are white in colour. Physical properties and material safety data can be found in the Tontine Bonded Polyester Products MSDS.

Applications

Tontine Ceiling Baffle is specially designed for use above partition walls in suspended ceiling cavities to reduce room-to-room sound transmission (commonly known as “flanking sound”). In modern office fitouts, lightweight partition walls typically stop at the junction with the suspended ceiling, and significant levels of noise may pass between rooms over the top of the partition wall. This is especially true when lightweight acoustic tiles are used for the suspended ceiling. This flanking sound may cause problems even if the partition wall itself has a good acoustic rating. The combination of Ceiling Baffle in the ceiling cavity and TSB insulation in the partition wall cavity helps ensure speech privacy and a quieter working environment. When the Ceiling Baffle pack is opened in the ceiling void it expands to fill the space and is held in place under its own compression.

Standard Sizes

Length (m)	Width (mm)	Number Per Pack
1200	600	8

One pack is suitable for ceiling voids up to 500mm in height, add one batt per each extra 62.5mm void height to maintain acoustic performance.

Acoustic Performance

Field test results have shown that Ceiling Baffle, when placed between a concrete slab and a dividing wall with a rating of Rw 41, improved the rating (Dncw) of the total wall by 6dB, from 32 to 38. The difference between Dncw and Rw of only 3dB is expected to be achieved for walls rated up to at least Rw 45. The performance was even better in the speech range of frequencies (200 – 1600Hz) where noise reduction is most important, with a 10dB improvement being achieved (equating to a 90% reduction in noise transmission). Competitor product tested under the same conditions could only achieve an 8dB reduction

Physical Properties

Melting Point:	250°C
Vapour Pressure:	Not Applicable
Percent Volatiles:	Nil
Specific Gravity:	1.38
Flash Point:	Not Applicable
Flammability:	Complies with building Code of Australia
Other Properties:	Non-allergenic, low irritant, formaldehyde free
Ingredients:	Organic, long chain synthetic polymer
Chemical Entity:	Composed of Carbon – Hydrogen – Oxygen
Max Service Temp:	120°C
Alkalinity:	pH 7.8 (pH 7 is neutral)
Moisture Content:	Exposure to an atmosphere of 50°C, 95% RH for four days gives a moisture content of less than 0.2% by volume.



Ceiling Baffle

Room to Room Sound Barrier



products knowledge solutions
for more detailed ecological and/or health information on this product refer to www.ecospecifier.org

Fire Resistance

When tested in accordance with AS1530.3 (1999), "Early Fire Hazard Properties of Materials", exhibits the following characteristics:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved	0
Smoke Developed Index	0 - 3

Moisture Resistance

Exposure to an atmosphere of 50°C and 95% relative humidity for 4 days results in less than 0.2% by vol moisture absorption.

Maximum Service Temperature

The maximum temperature to which Tontine Ceiling Baffle should be exposed in service is 150°C.

Environmental and Health Benefits

Recycled Fibre Content	80% minimum
Volatile Organic Compounds (VOC's)	No harmful VOC's
Formaldehyde Content	Nil
Phenol Content	Nil
Ammonia Content	Nil
Ozone Depleting Potential (ODP)	Nil
Chloride Content	Nil
Total Recyclable Content	100%

How to Specify

The acoustic insulation material shall be Tontine Ceiling Baffle as manufactured by Tontine Fibres.

General Installation Advice

Ceiling Baffle is safe and easy to install, with safety glasses and respiratory equipment not required. If the void is greater than 500mm in height, place extra batts on top of the pack, one per each extra 62.5mm in void height. Simply cut off the top and bottom of the pack leaving the batts in the remaining sleeve then insert the pack into the void. Adjust the pack so it is completely centred along the line of the partition with 300mm either side of the partition centreline then simply slit along the remaining sleeve and remove the plastic. The batts will then expand up to the slab. Adjust batts to form an even stack end to butt the next pack to. For areas where there are pipes ducts or cables preventing whole pack installation then individual batts should be packed around the duct or pipe until they are suitably compressed. Small pieces can easily be torn from batts for packing into narrow crevices and around obstructions.

Testing

Tontine Ceiling Baffle has been field tested by independent acoustic consultants in accordance with AS/ISO 140.4 using procedures based on AS2499. On site results may vary due to site conditions and quality of installation. As these products are constantly being researched and developed, we reserve the right to update these specifications without notice.

FOR FURTHER INFORMATION OR AN MSDS, CALL 1300 TONTINE OR E-MAIL customercare@unitedbonded.com.au

In most cases product testing has been conducted in laboratory situation under controlled conditions. Site-measured performance may vary due to installation quality and site conditions. Thermal testing has been carried out in accordance with AS/NZS 4859.1, and acoustic testing in accordance with AS1045 or AS1191 in certified reverberation rooms. As these products are subject to constant research and development, we reserve the right to update the contents without notice. Recommendations regarding the use of products are to be taken as a guide only, and the purchaser should independently determine the suitability of a product for the intended application.

© Copyright 2008. ® and ™ are trademarks used by Tontine Fibres.

50 Bakers Road Coburg North VIC 3058
Telephone: 1300 TONTINE • Fax: 1800 653 650
Email: customercare@unitedbonded.com.au
Website: www.unitedbonded.com.au
Website: www.tontinefibres.com.au



SYDNEY • BRISBANE • MELBOURNE • PERTH