



Ceiling Baffle

Room to Room Office Partition
Sound Barrier for Suspended
Ceiling Voids



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

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 generally 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 or Nova 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 600mm 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).

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. |



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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 Insulation.

General Installation Advice

Tontine Ceiling Baffle is safe and easy to install, and no safety glasses and respiratory equipment are required. If the void is greater than 600mm in height, place extra batts on top of the pack, one for each additional 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 slit along the remaining sleeve and remove the plastic. The batts will then expand to fill the ceiling void. Ensure the end of the pack is uniformed to allow the next pack to butt evenly against it. Where there are pipe, 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 CALL 1300 467 852 OR E-MAIL customercare@tontineinsulation.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.

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