



# Environmental and Health Benefits of Tontine Insulation



## ZERO OZONE DEPLETING POTENTIAL

The materials used in insulation products made by Tontine Insulation and the manufacturing processes used in Tontine Insulation factories to make these products, have a zero Ozone Depleting Potential (ODP).

## ZERO FORMALDEHYDE

The manufacturing process for polyester insulation products at Tontine Insulation does not include the use of solvents or resins. Therefore there is no residual formaldehyde or other Volatile Organic Compounds (VOCs) on the insulation material due to the manufacturing process. With polyester not being a VOC either, the VOC content of our polyester insulation products is expected to be negligible.

## ZERO CHLORIDES

The insulation products made by Tontine Insulation do not contain any raw material with chloride compounds, nor are chloride compounds used in the insulation manufacturing process. There are also no other corrosive chemicals used at any stage of the manufacture of the insulation or the raw materials. Therefore all Tontine Insulation products can be considered to have non-corrosive properties. All Tontine Insulation products are exempt from the AS4859.1 requirement for corrosive testing.

## NON-ALLERGENIC PROPERTIES

The polyester used in Tontine Insulation products has non-allergenic properties and is safe for asthma sufferers. Tontine Insulation products do not contain binders that may deteriorate and crumble over time, or use brittle or short fibres that are prone to breakage and/or easily respirable. Therefore it does not have the potential to create airborne dust due to fibres or other detritus working their way down through lighting and air conditioning vents in the ceiling. Polyester is one of the types of fibrous insulation recommended by Asthma Foundations Australia for unrestricted use in low allergen or asthma friendly buildings.<sup>1,2</sup>

<sup>1</sup> The Asthma Foundation of Western Australia Inc, "Towards the Low Allergen Home", [www.asthmawa.org.au](http://www.asthmawa.org.au).

<sup>2</sup> Asthma Foundation NSW, "Asthma Friendly Children's Services – Guidelines", [www.asthmansw.org.au](http://www.asthmansw.org.au).

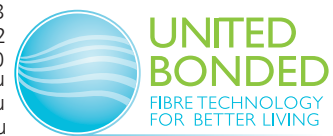
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In most cases product testing has been conducted in laboratory situation under controlled conditions. Site-measured performance may vary due to installation quality and site conditions. Thermal testing has been carried out in accordance with AS/NZS 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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