



Thermalwrap

BCA compliant insulation
for flexible ducting



Product Description

Tontine Thermalwrap is lightweight product manufactured from thermally bonded polyester fibre, with a high percentage of recycled fibres. As well as being manufactured in compliance with AS/NZS 4859.1, Tontine Thermalwrap is a non-toxic and user friendly insulation, requiring no specific protective clothing. The products are white in colour. Physical properties and material safety data can be found on the Tontine Bonded Polyester Products MSDS.

Applications

Tontine Thermalwrap is designed to fit between the inner and outer layers of flexible ductwork. Note that the quoted R-Value for Thermalwrap is for the insulation material only. The Building Code of Australia requires insulation of ducting to achieve a certain 'Total R-Value'. To estimate the Total R-Value of ductwork lined with Thermalwrap, add 0.15 to the quoted R-Value. Note that if the available cavity between the inner and the outer layers of flexible ductwork is less than the quoted insulation thickness, the stated R-value may not be achieved.

Standard Sizes and Packaging

R-Value	Thickness (mm)	Length (m)	Width (m)	Number Per Pack
R0.45	30	30	Various	Various
R0.85	60	18	Various	Various
R1.35	85	15	Various	Various

Non-standard sizes can be manufactured to order upon request.
For more information please call 1300 TONTINE or your Tontine representative.

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.



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Maximum Service Temperature

The maximum service temperature to which Tontine Thermalwrap 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 insulation material shall be Tontine Thermalwrap (R0.45, R0.85, R1.35) as manufactured by Tontine Fibres.

General Installation Advice

Tontine Thermalwrap is safe and easy to install around ductwork and is easily torn or cut with a pair of industrial scissors or shears. No special clothing, gloves or masks are required for installation. Allow up to one month for products subjected to compression to recover to nominal thickness. Note that the R-Value of the insulation will be reduced if the gap available between the inner and outer layers is less than the insulation nominal thickness.

Ligon 216 Pty Ltd ABN 79 003 799 068 trading as Soundblock Solutions
P.O.Box 813 Woollahra NSW 1350

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Tel: 61 2 9327 7410 • Fax: 61 2 9327 1077 • Mob: 0418 409 504
Email: enquiry@soundblock.com.au • Website: www.soundblock.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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