

REFLECTIVE MULTI-LAYER INSULATION



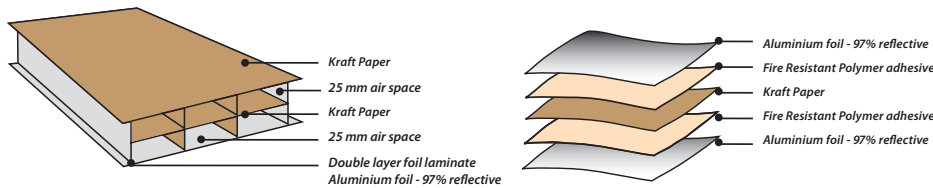
Product: TSTLC-4501200

Trade Select™ SILVERBATTSTM™ TRIPLE-LAYER COMMERCIAL (TLC) is an expandable 97% reflective insulation panel, designed for use under concrete slab soffits in residential and commercial buildings. Double-sided reflective panelling creates two reflective air spaces in your ceiling structure, increasing the R-value of your building system.

- ✓ 97% Reflective
- ✓ Fibre-free & non-allergenic
- ✓ Moisture resistant
- ✓ Easy to install

Construction

Trade Select™ SILVERBATTSTM™ TLC is manufactured with sheets of five-layer aluminium foil laminate, composed of kraft paper with aluminium foil bonded to both sides with a fire-resistant polymer adhesive. Three layers of foil laminate are assembled together, separated by vertical webbings of the same material, to create the panel. A flange at each side allows multiple panels to interlock. Trade Select™ SILVERBATTSTM™ TLC has a paper backing on one side, which enables it to be adhered under concrete slabs, timber floors, etc.



Application

Trade Select™ SILVERBATTSTM™ TLC is designed for use in ceilings and soffits in commercial and industrial applications.

Trade Select™ SILVERBATTSTM™ TLC can be used in a range of systems. R-values vary depending on direction of heat flow and the thickness of reflective air spaces created. Reports on system R-values, calculated in accordance with AS/NZS 4859.1:2002 by an accredited thermal engineering consultant, are available for each application of this product.

Installation

Trade Select™ SILVERBATTSTM™ TLC is sold flat and expanded on site. Trade Select™ SILVERBATTSTM™ TLC is installed by applying a suitable adhesive to the paper side of the product and then pressing into position onto the concrete or timber surface. Once the adhesive has cured, pull Trade Select™ SILVERBATTSTM™ TLC into its expanded shape.

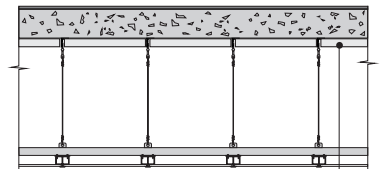
Trade Select™ SILVERBATTSTM™ TLC is non-toxic, non-allergenic, non-irritant and not classified as hazardous according to WorkSafe Australia criteria. No protective clothing or breathing filters are required. It is recommended that a dust mask and eye protection be worn to protect the installer from any disturbed dust.

Manufacturer's approval or independent advice should be sought for any proposed usage outside of the recommended application.

* The contribution of this product to the total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.

DECLARED TOTAL SYSTEM R-VALUES

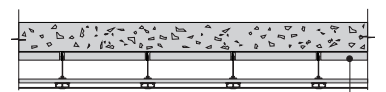
FLAT CONCRETE ROOF SOFFIT
150 mm concrete slab roof with one layer of Trade Select™ SILVERBATTSTM™ TLC glued beneath concrete slab, 600 mm - 1000 mm suspended ceiling



Trade Select™ SILVERBATTSTM™ TLC
CALCULATION REF: 12387

WINTER **R_T1.9** SUMMER **R_T5.3**

FLAT CONCRETE ROOF SOFFIT
150 mm concrete slab roof with one layer of Trade Select™ SILVERBATTSTM™ TLC glued beneath concrete slab, 200 mm suspended ceiling



Trade Select™ SILVERBATTSTM™ TLC
CALCULATION REF: 12223

WINTER **R_T1.9** SUMMER **R_T4.4**

FLAT CONCRETE ROOF SOFFIT
150 mm concrete slab roof with one layer of Trade Select™ SILVERBATTSTM™ TLC glued beneath concrete slab, no ceiling



Trade Select™ SILVERBATTSTM™ TLC
CALCULATION REF: 12384

WINTER **R_T1.4** SUMMER **R_T2.6**



TSTLC-4501200

Classification

Trade Select™ SILVERBATTSTM TLC classifications under AS/NZS 4200.1:1994

PRODUCT		Trade Select™ SILVERBATTSTM TLC			
		HEAT FACTOR	SPREAD FACTOR	IGNITABILITY	SMOKE DEVELOPED
FIRE PERFORMANCE	AS 1530.3:1993	0	0	0	0
EMITTANCE	AS/NZS 4201.5:1994	SIDE A: 0.03	SIDE B: 0.03		
REFLECTIVITY		97%			
RESISTANCE TO DRY DELAMINATION	AS/NZS 4201.1:1994	Pass			
RESISTANCE TO WET DELAMINATION	AS/NZS 4201.2:1994	Pass			
SHRINKAGE	AS/NZS 4201.3:1994	< 0.5%			

NOTE: These are the minimum performance figures when tested in accordance with AS/NZS 4200.1:1994. They are not production specifications.

NCC/BCA Compliant

Trade Select™ SILVERBATTSTM TLC complies with AS/NZS 4200.1:1994 and AS/NZS 4859.1:2002 and therefore satisfies all requirements of the National Construction Code and Building Code of Australia.

Durability

Weather

Trade Select™ SILVERBATTSTM TLC is generally installed from within a building. It is not designed to withstand prolonged exposure to weather and should not be stored outside.

Corrosion

Under normal use in commercial conditions, Trade Select™ SILVERBATTSTM TLC is not subject to significant degradation except in the immediate coastal vicinity, where external upward facing foil can be corroded by salt. However, corrosion has minimal affect on thermal performance, as the thermal properties depend primarily on the downward facing surfaces. The foil coating on Trade Select™ SILVERBATTSTM TLC can also be corroded if exposed to substances which are alkaline or acidic.

Dust Accumulation

Trade Select™ SILVERBATTSTM TLC systems installed horizontally and exposed to dust accumulation may have reduced reflectivity of up to 50% over time. Initial performance will therefore generally be higher than stated performance.

Fire Performance

The Building Code of Australia calls for fire performance to be tested under AS/NZS 1530.3: 1999, *Methods for fire tests on building materials, components and structures*. When tested under this standard by the Building Research Association of New Zealand, Trade Select™ SILVERBATTSTM TLC returned a four-zero rating, the best possible.

Electrical

Ametalin stresses the importance of safe installation practices for foil-based insulation as critical to installer and consumer safety. Aluminium Foil Insulation Association Inc. (AFIA) has prepared Work Method Statements and Hazard Management forms to assist contractors and installers in safe installation of reflective insulation products. These documents are available under 2009 AFIA WMS & Hazard Management, at www.afia.com.au/news/health-and-safety/.

Unlike bulk insulation, which can contain heat around wiring, electrical equipment and heating flues, Trade Select™ SILVERBATTSTM TLC does not create a fire hazard. This means that standard grades of wiring can be used around Trade Select™ SILVERBATTSTM TLC, rather than the heavier grade wiring required for bulk insulation. Trade Select™ SILVERBATTSTM TLC, like all foil insulation, is specifically excluded from AS/NZS 3008.1:2009, clause 3.4.3, which covers the de-rating of wiring used in conjunction with bulk insulation. Single insulated conductors such as switches and sockets should be treated in accordance with AS/NZS 3000:2007, clause 5.7.3.7, e.g. by clipping wiring together with a cable tie. Shrouds are not required.

Dimensions

Trade Select™ SILVERBATTSTM TLC is sold in size:
450 mm x 1200 mm x 50 mm

Specification Notes

When specifying, state the following:

Product Name: Trade Select™ SILVERBATTSTM TLC

The insulation to be installed shall be Trade Select™ SILVERBATTSTM Triple Layer Commercial multi-layer expandable reflective insulation, emittance bright side 0.03. Product is manufactured by Ametalin.

© 2014 Ametalin All Rights Reserved. Ametalin is a division of Amalgamated Metal Industries Pty. Ltd. Product information in this publication and otherwise supplied to users is based on our general experience and is given in good faith, but due to factors outside our knowledge and control which may affect the use of products, no warranty is given or implied with respect to this information or the product itself regarding the suitability of the product for any particular purpose. The usage of this and other building membranes will affect moisture migration in the building element. The purchaser should independently determine the suitability of the product for the intended purpose. For large projects with complex air-conditioning and condensation issues, designers may wish to contact our technical department. Amalgamated Metal Industries Pty. Ltd. reserves the right to amend product specifications without prior notice. Information provided is considered to be true and correct at the time of publication. DTE-41842-42



AUSTRALIAN MADE, AUSTRALIAN OWNED.
MANUFACTURED IN AUSTRALIA BY
AMALGAMATED METAL INDUSTRIES PTY LTD.
41-43 Birrale Road Regency Park SA 5010
T: +61 8 8347 0941 F: +61 8 8347 0915
E: info@tradeselect.co