

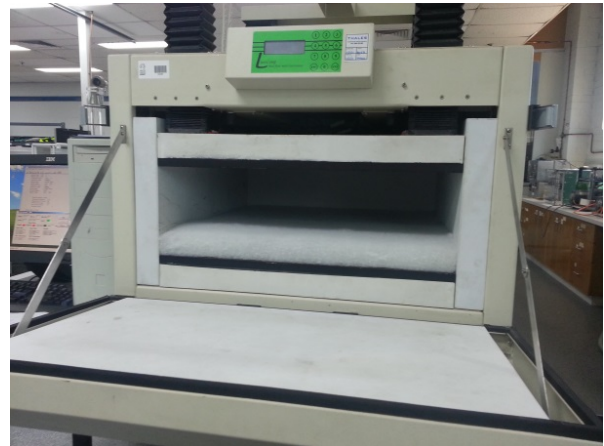
THERMAL RESISTANCE TESTING

Background

AWTA Product Testing is pleased to announce that the laboratory has achieved **NATA accreditation** to conduct testing to ASTM C518 and AS/NZS 4859.1 using a LaserComp Fox600 Heat Flow Meter Apparatus. This unit is widely considered to be one of the most appropriate, precise and accurate instruments available.

The Fox600 was designed in accordance with the requirements of ASTM C518 "Standard Test Method for Steady-state Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus" and is applicable to those standards quoted in the AWTA Product Testing Laboratory's scope.

The process which has been extensive and extremely thorough culminated in accreditation being granted on Friday 22nd November, 2013.



NATA Certification

AWTA Product Testing may carry out thermal testing according to the following scope:

Thermal Conductivity

Measurement of thermal conductivity of samples at temperatures ranging from 5 to 65⁰C with a thermal resistance of not less than 0.01 m²KW⁻¹ with least uncertainties of measurement of 8.4% in the range 0.0084 to 0.85 Wm⁻¹K⁻¹ and 0.0084 to 8.40 m²PaW⁻¹, by the methods of ISO 11092 (Textiles) and ASTM F1868.

Measurement of thermal conductivity of samples in the range of 0.01 - 0.2 W/mK at thicknesses of 2 to 200mm with least uncertainties of measurement of 3.9% by the methods of:

- **ASTM C518** Steady State Thermal Transmission Properties by means of Heat Flow Meter Apparatus
- **ASTM C653** Determination of Thermal Resistance of Low Density Blanket Type Mineral Fibre Insulation
- **AS/NZS 4859.1** Appendix D - Determination of Thermal Resistance of Low-Density Fibrous Insulation using **ASTM C653** with variations

Measurement of physical dimensions of thermal insulation by the methods of:

- **ASTM C167** Thickness and Density of Blanket or Batt Thermal Insulations

Tests and examinations for compliance with **AS/NZS 4859.1** Materials for the thermal insulation of buildings, Clause 2.3.2 for the following material types: Formed shapes, Formed in situ, Low density fibrous materials, and Reflective membranes.

Tests and examinations for compliance with **AS/NZS 4859.1** Materials for the thermal insulation of buildings, Section 3 Packaging and Labelling.

Fees

- AUD \$635.00 (+GST if applicable) for ASTM C518 and AUD \$1,540.00 (+GST if applicable) for AS/NZS4859.1
- Sample sizes are 2 specimens each 610mm x 610mm for ASTM C518 and 27m² or typically 3 unopened commercial packs for AS/NZS4859.1

Contact Us

For more information contact **AWTA Product Testing** on: +61 (0)3 9371 2400 or producttesting@awta.com.au

