

### Sample Submission Form

## Determination of Declared Thermal Resistance in accordance with AS/NZS 4859.1:2018

# **EPS – Expanded Polystyrene Foam**

No ageing required

AS/NZS 4859:2018, Clause 8.2.2

"Expanded polystyrene (EPS) does not contain low thermal conductivity blowing agents so thermal resistance determination does not require any allowance for ageing."



#### T19F10

(Nominal thickness only)

Sample required: 10 specimens 300x300mm @ nominal thickness (up to 100mm)

#### T19F10 x 2

(for product range, testing of thinnest & thickest product)

Sample required: 10 specimens 300x300mm from thinnest product

10 specimens 300x300mm from from thickest product (up to 100mm)

AS/NZS 4859.1:2018, clause 2.3.3.6 allows, where a group of homogeneous bulk insulation products of similar chemical and physical composition and differing only in thickness, that only the thickest and the thinnest products need to be tested. The highest declared thermal conductivity shall apply to the whole group.

| Delivery Address               | Further information               |
|--------------------------------|-----------------------------------|
| AWTA Product Testing           | AWTA Product Testing              |
| Level 1, 191 Racecourse Rd,    | Phone: (03) 9371 2400             |
| Flemington VIC 3031, Australia | Email: producttesting@awta.com.au |
|                                |                                   |

IMPORTANT NOTE: That by submitting samples for testing YOU AGREE that the resulting testing shall be performed under our terms and conditions for testing and consulting services: www.awtaproducttesting.com.au/index.php/about/terms-and-conditions



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## **Thermal Transmission Properties**

Specification: AS/NZS 4859.1:2018 Test Method: ASTM C518:2017

The National Construction Code requires a Declared Insulation Value (R<sub>50/90</sub>) to be determined in accordance with AS/NZS 4859.1:2018 "Materials for the thermal insulation of buildings". For Formed Shaped, Formed in-situ, Reflective Products and Low Density Compressible Batts, this specification calls up test method ASTM C518:2017.

ASTM C518 measures the steady state thermal transmission through flat specimens using a heat flow meter apparatus. From the test, the thermal conductivity ( $\lambda$ ) and R-value is determined.

AS/NZS 4859.1-2018 requires that the thermal resistance and thermal conductivity are measured at a standard mean temperature of 23°C for products sold within Australia and 15°C for products sold in New Zealand.

We offer thermal transmission testing compliance with AS/NZS 4859.1:2018, including ageing processes (see over) required to determine the Declared Thermal Resistance ( $R_{50/90}$ ) and Declared Thermal Conductivity ( $\lambda_{50/90}$ ).

| Company name         |  |
|----------------------|--|
| Company Address:     |  |
| Contact person       |  |
| Contact email        |  |
| Contact phone number |  |
| Package Required     |  |
| Name of your product |  |
| Nominal composition  |  |
| Nominal thickness    |  |
| Special instructions |  |

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