

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400

## TEST REPORT

**Client :** Bremworth  
7 Grayson Avenue  
Papatoetoe  
Auckland 2104 New Zealand

**Test Number :** 22-004159  
**Issue Date :** 10/11/2022  
**Print Date :** 10/11/2022

**Sample Description** Clients Ref : "Product 506 Wainamu"  
Loop pile carpet  
Colour : Brown  
End Use : Flooring  
Nominal Composition : 100% Wool  
Nominal Mass per Unit Area/Density : 984g/m2  
Nominal Thickness : 8mm



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Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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### ASTM C518-2021

### Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus

|                                     |                   |                           |
|-------------------------------------|-------------------|---------------------------|
| Test Date                           | 09-11-2022        |                           |
| Test Apparatus                      | Lasercomp Fox 314 |                           |
| Sample Orientation                  | Horizontal        |                           |
| Heat Flow Direction                 | Up                |                           |
| Mean Test Temperature               | 23 °C             |                           |
| Temperature Differential            | 20 °C             |                           |
| Average Thermal Gradient            | 452.0 K/m         |                           |
| Estimated uncertainty in results    | 3.1 %             |                           |
| Specimen                            | 1                 | 2                         |
| Specimen Thickness<br>(as received) | 8.9               | 8.8 mm                    |
| Specimen Thickness<br>(as tested)   | 44                | 44 mm                     |
| Specimen Density<br>(as tested)     | 256               | 258 kg/m <sup>3</sup>     |
| Test Duration                       | 01:17             | 01:00 hrs:mins            |
| Measured Heat Flux                  | 26.9              | 27.0 W/m <sup>2</sup>     |
| Measured Thermal Conductance        | 1.3470            | 1.3501 W/m <sup>2</sup> K |
| Measured Thermal Conductivity       | 0.0597            | 0.0597 W/m.K              |
| Thermal Resistance                  | 0.74              | 0.74 m <sup>2</sup> K/W   |
| Thermal Resistance (1 layer)        | 0.15              | 0.15 m <sup>2</sup> K/W   |

The calibration of the Heat Flow Apparatus was checked immediately prior to the commencement of the test.

Specimens were tested as a stack of 5 layers placed face to back

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