

# 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 :** Cavalier Bremworth  
7 Grayson Avenue  
Papatoetoe  
Auckland New Zealand

**Test Number :** 20-005731  
**Issue Date :** 25/11/2020  
**Print Date :** 25/11/2020

**Sample Description** Clients Ref : "Armure 542"  
Loop pile carpet  
Colour : Grey  
End Use : Flooring

### ASTM C518-2017

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

Test Date		24/11/2020
Test Apparatus		Lasercomp Fox 314
Sample Orientation		Horizontal
Heat Flow Direction		Up
Mean Test Temperature		23 °C
Temperature Differential		20 °C
Average Thermal Gradient		368.4 K/m
Estimated uncertainty in results		3.1 %
Specimen	1	2
Specimen Thickness (as received)	11	11 mm
Specimen Thickness (as tested)	55	54 mm
Specimen Density (as tested)	243	247 kg/m <sup>3</sup>
Test Duration	02:17	01:26 hrs:mins
Measured Heat Flux	21.0	21.3 W/m <sup>2</sup>
Measured Thermal Conductance	0.1051	0.1063 W/m <sup>2</sup> K
Measured Thermal Conductivity	0.0573	0.0575 W/m.K
Thermal Resistance	0.95	0.94 m <sup>2</sup> K/W
Thermal Resistance (1 layer)	0.19	0.19 m <sup>2</sup> K/W

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APPROVED SIGNATORY

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

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

Specimens were tested as 2 separate stacks of 5 layers of carpet placed face to back.

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A blue ink signature of the approved signatory.

APPROVED SIGNATORY



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

0204/11/06