

# 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 :** 20-005013  
**Issue Date :** 20/10/2020  
**Print Date :** 20/10/2020

**Sample Description** Clients Ref : "Lisburn 3050"  
Loop pile carpet - Grey

### ASTM C518-2017

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

Test Date		19/10/2020
Test Apparatus		Lasercomp Fox 314
Sample Orientation		Horizontal
Heat Flow Direction		Up
Mean Test Temperature		23 °C
Temperature Differential		20 °C
Average Thermal Gradient		323.8 K/m
Estimated uncertainty in results		3.1 %
Specimen	1	2
Specimen Thickness (as received)	12	12 mm
Specimen Thickness (as tested)	62	62 mm
Specimen Density (as tested)	266	273 kg/m <sup>3</sup>
Test Duration	02:12	01:21 hrs:mins

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APPROVED SIGNATORY

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

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Measured Heat Flux	22.1	22.1	W/m <sup>2</sup>
Measured Thermal Conductance	0.1107	0.1107	W/m <sup>2</sup> K
Measured Thermal Conductivity	0.0684	0.0683	W/m.K
Thermal Resistance	0.90	0.90	m <sup>2</sup> K/W
Thermal Resistance (1 layer)	0.18	0.18	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 2 separate stacks of 5 layers of carpet placed face to back.

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