



SAMPLE RECEIVED FROM:
Luxe Group Limited

Date: 30.11.18

SAMPLE DESCRIPTION:
Black laminate underlay, 12mm/140kg.

ASTM C518-2017 - Steady –State Thermal Transmission Properties by Means of the Heat Flow Apparatus

Note: This test was sub-contracted (test no. 18-007253).

Test Apparatus Used:	Lasercomp Fox 600	Temperature Differential:	20°C
Sample Orientation:	Horizontal	Estimated Uncertainty in Results:	3.9%
Mean Test Temperature:	15°C	Heat Flow Direction:	Up
Average Thermal Gradient:	338.5 K/m		

	Specimens	
	1	2
Specimen Thickness (as received) (mm)	12	12
Specimen Thickness (as tested) (mm)	59	59
Specimen Density (as tested) (kg/m ³)	28	28
Test Duration (hrs:mins.)	02:59	02:12
Measured Heat Flux (W/m ²)	12.9	12.9
Measured Thermal Conductance (W/m ² K)	0.0645	0.0645
Measured Thermal Conductivity (W/m.K)	0.0382	0.0380
Thermal Resistance (m ² K/W)	1.5	1.6
Thermal Resistance – 1 Layer (m ² K/W)	0.31	0.31

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

Group of 5 stacked specimens turned at 90° for second result.

L A Greer
Signatory

C Judan
Signatory

18/12/2018

“THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED”

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

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