

Thermal Resistance Test Certificate

Thursday, September 08th, 2022

Supplier: Australian Select Timbers Pty Ltd (136 Atlas Boulevard, Dandenong South, VIC 3175, Australia)

Sample Description: 14.5mm Engineered European Oak with 2mm Select Underlay

Date Tested: 5 September 2022 (Tested through Laboratories – NATA Accreditation 1356)

Test Method: ASTM C518-2017 “Steady-State Thermal Transmission Properties by Means of the Heat Flow Apparatus”.

Test Data:

Sample Identification	14.5mm Engineered European Oak with 2mm Select Underlay		
Specimen	1	2	Averaged
Specimen Thickness (mm)	17	17	17
Specimen Density (kg/m ³)	556	581	568.5
Test Duration (hrs:mins)	00:35	00:51	00:43
Measured Heat Flux (W/m ²)	127.3	133.6	130.5
Measured Thermal Conductance (W/m ² .K)	6.3647	6.6625	6.5136
Measured Thermal (K value) Conductivity (W/m.K)	0.1068	0.1124	0.1096
Thermal Resistance (R value) (m ² K/W)	0.16	0.15	0.155

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

Specimens were tested with the underlay side towards the hot plate.

Photo of the tested sample



Dr. Vyt Garnys
PhD, BSc(Hons) AIMM, ARACI, ISIAQ
ACA, AIRAH, FMA
Managing Director and Principal Consultant



Travis Hale
BSc (Biotechnology)
Senior consultant



Dr. Tuan Duong
PhD, B.E. Chem.
Senior Consultant

P22070120