

# 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 :** Borg Manufacturing Pty Ltd  
2 Wella Way  
Somersby NSW 2250

**Test Number :** 20-002980  
**Issue Date :** 16/07/2020  
**Print Date :** 16/07/2020

**Sample Description** Clients Ref : "Structaflor R-flor 19mm"  
Particleboard with aluminium foil facing  
Nominal Thickness : 19mm

### ASTM C518-2017

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

Test Date	15/07/2020	
Test Apparatus	Lasercomp Fox 314	
Sample Orientation	Horizontal	
Heat Flow Direction	Up	
Mean Test Temperature	23 °C	
Temperature Differential	20 °C	
Average Thermal Gradient	1025.4 K/m	
Estimated uncertainty in results	3.1 %	
Specimen	1	2
Specimen Thickness (as received)	19	19 mm
Specimen Thickness (as tested)	19	19 mm
Specimen Density (as tested)	679	671 kg/m <sup>3</sup>
Test Duration	01:00	00:47 hrs:mins
Measured Heat Flux	121.4	119.7 W/m <sup>2</sup>
Measured Thermal Conductance	0.6068	0.5986 W/m <sup>2</sup> K
Measured Thermal Conductivity	0.1182	0.1169 W/m.K
Thermal Resistance	0.16	0.17 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 with the aluminium foil side towards the hot plate.

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