

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
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## TEST REPORT

CLIENT : THE LAMINEX GROUP  
PO BOX 720  
WENDOUREE VIC 3355

TEST NUMBER : 7-598692-CV  
ISSUE DATE : 30/07/2014  
PRINT DATE : 30/07/2014

SAMPLE DESCRIPTION Clients Ref: "Sample 15146 Compact Laminate (Multipurpose, Laboratory Grade and Alfresco Ranges)  
Laminated rigid panel Colour: Grey  
Nominal Composition: Thermosetting resins reinforced with cellulose fibres  
Nominal Thickness: 13mm Nominal Density: 1390kg/m3

ISO 5660.1-2002 Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate  
Part 1: Heat Release Rate (Cone Calorimeter Method)

### RESULTS:-

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate at 50kW/m2	95.5	98.7	101.2	98.5	kW/m2

Group Number Classification (In Accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

	Specimen			Mean	
	1	2	3		
Average Specific Extinction Area (According to ISO 5660.2-2002)	49.0	49.4	38.8	45.7	m2/kg

Test orientation: Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m2
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	95	99	76	90	s
Test duration	1895	1899	1876	1890	s

Heat release rate curve on the 9 attached sheets which form part of this report

	Specimen			Mean	
	1	2	3		
Peak heat release after ignition	139.5	140.8	132.7	137.7	kW/m2
Average heat at 60s	70.6	80.3	63.0	71.3	kW/m2
Release rate at 180s	72.7	78.3	73.6	74.9	kW/m2
After ignition at 300s	73.5	75.7	74.2	74.5	kW/m2
Total heat released	172.2	177.6	12.0	11.6	MJ/m2
Average effective heat of combustion	11.1	11.6	12.0	11.6	MJ/kg

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*[Signature]*

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

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Initial thickness	13.0	13.0	13.0	13.0	mm
Initial mass	184.4	181.7	182.2	182.8	g
Mass remaining	58.4	56.3	57.9	57.5	g
Mass percentage pyrolysed	68.3	69.0	68.2	68.5	%
Mass loss	126.0	125.4	124.3	125.2	g
Average rate of mass loss	8.6	8.5	8.5	8.5	g/m <sup>2</sup> .s

Note: All calculations are based on Ignition + 30 Minutes.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

### Observations:

"These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for the assessment of performance under real fire conditions"

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( END OF REPORT )

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APPROVED SIGNATORY

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MANAGING DIRECTOR