

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N. 43 006 014 106

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P.O. Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

CLIENT : THE LAMINEX GROUP  
PO BOX 720  
WENDOUREE VIC 3355

TEST NUMBER : 7-590426-CV  
ISSUE DATE : 24/04/2013  
PRINT DATE : 24/04/2013

SAMPLE DESCRIPTION Clients Ref: "C Samples"  
Nom: 4.5mm Tempered hardboard  
Thickness: 4.5mm 4500g/m2

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	68.2	67.3	64.2	66.6	kW/m2
Group Number Classification (In Accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)	3	3	3	3	
Average Specific Extinction Area (According to ISO 5660.2-2002)	61.1	55.1	68.8	61.7	

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	39	37	40	39	s
Test duration	1470	1840	1475	1595	s

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

Peak heat release after ignition	591.8	552.0	579.0	574.3	kW/m2
Average heat at 60s	120.5	130.7	119.6	123.6	kW/m2
Release rate at 180s	294.5	292.9	288.1	291.8	kW/m2
After ignition at 300s	204.6	205.4	206.7	205.6	kW/m2
Total heat released	97.6	97.0	92.1	95.6	MJ/m2
Average effective heat of combustion	17.7	17.4	16.3	17.1	MJ/kg

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APPROVED SIGNATORY

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

0204/11/06

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Initial thickness	4.5	4.5	4.5	4.5	mm
Initial mass	45.0	45.9	46.3	45.7	g
Mass remaining	0.0	0.0	0.0	0.0	g
Mass percentage pyrolysed	100.0	100.0	100.0	100.0	%
Mass loss	45.0	45.9	46.3	45.7	g
Average rate of mass loss	3.9	3.9	3.9	3.9	g/m2.s

Tests were conducted with a wire grid placed over the sample during testing  
This was done to contain intumescing 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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