

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 : 7-590420-CV
ISSUE DATE : 23/04/2013
PRINT DATE : 24/04/2013

SAMPLE DESCRIPTION Clients Ref: "D Samples"
Nom: 5mm Standard hardboard
Thickness: 5mm 5300g/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	76.5	64.8	70.1	70.5	kW/m2

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

	1	2	3	Mean
	3	3	3	3

Average Specific Extinction Area (According to ISO 5660.2-2002)

	1	2	3	Mean
	35.4	45.9	31.3	37.5

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	43	40	41	s
Test duration	1395	1635	1610	1547	s

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

	1	2	3	Mean	
Peak heat release after ignition	479.6	512.7	529.3	507.2	kW/m2
Average heat at 60s	127.9	133.4	113.2	124.8	kW/m2
Release rate at 180s	219.5	236.1	211.3	222.3	kW/m2
After ignition at 300s	229.3	234.3	237.6	233.7	kW/m2
Total heat released	103.7	103.0	110.1	105.6	MJ/m2
Average effective heat of combustion	16.1	15.8	16.7	16.2	MJ/kg

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APPROVED SIGNATORY


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

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Initial thickness	5.0	5.0	5.0	5.0	mm
Initial mass	52.8	53.5	54.0	53.4	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	52.8	53.5	54.0	53.4	g
Average rate of mass loss	4.8	4.1	4.2	4.4	g/m2.s

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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