

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 : 7-595506-CV
 ISSUE DATE : 24/12/2013
 PRINT DATE : 06/01/2014
 ORDER NUMBER : 1917

SAMPLE DESCRIPTION Clients Ref: "Sample 14521 - Seratone Life"
 Nominal Composition: High density fibre board (oil tempered
 hardboard) coated on the exposed face with a 120 micron
 multi layered paint system
 Density: 1050 kg/m³
 Thickness: 4.5mm

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/m ²	51.3	52.5	50.7	51.5	kW/m ²

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

Specimen	1	2	3
Classification	3	3	3

	Specimen			Mean	
	1	2	3		
Average Specific Extinction Area (According to ISO 5660.2-2002)	54.8	57.6	49.6	54.0	m ² /kg

Test orientation: Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	41	43	44	43	s
Test duration	1841	1843	1844	1843	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	357.0	336.1	342.1	345.1	kW/m ²
Average heat at 60s	219.0	217.8	218.2	218.3	kW/m ²
Release rate at 180s	272.9	259.2	269.8	267.3	kW/m ²
After ignition at 300s	205.4	207.3	207.9	206.9	kW/m ²
Total heat released	92.5	94.5	91.2	92.7	MJ/m ²
Average effective heat of combustion	16.5	16.7	16.2	16.5	MJ/kg

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Initial thickness	4.5	4.5	4.5	4.5	mm
Initial mass	45.6	46.5	46.5	46.2	g
Mass remaining	0.0	0.5	0.5	0.3	g
Mass percentage pyrolysed	100.0	98.9	98.9	99.3	%
Mass loss	45.6	46.0	46.0	45.9	g
Average rate of mass loss	3.1	3.1	3.1	3.1	g/m2.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. This was done to contain intumescent sample within 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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