

AWTA PRODUCT TESTING

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

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TEST REPORT

CLIENT : THE LAMINEX GROUP
PO BOX 720
WENDOUREE VIC 3355

TEST NUMBER : 7-598186-CV
ISSUE DATE : 02/07/2014
PRINT DATE : 02/07/2014

SAMPLE DESCRIPTION Clients Ref: "Sample 15147 Caesarstone"
Rigid panel
Colours supplied: Shitake, nougat, jet black, white
Nominal Composition: Quartz stone bound together
with resins
Nominal Thickness: 20mm Nominal Density: 2380kg/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	36.9	53.1	39.9	43.3	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)	680.4	561.5	821.5	687.8	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	345	290	353	329	s
Test duration	2145	2090	2153	2129	s

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

Peak heat release after ignition	134.4	153.3	132.3	140.0	kW/m2
Average heat at 60s	62.1	87.7	62.0	70.6	kW/m2
Release rate at 180s	102.7	100.2	100.0	101.0	kW/m2
After ignition at 300s	111.7	106.4	100.9	106.3	kW/m2
Total heat released	66.5	95.7	71.9	78.0	MJ/m2
Average effective heat of combustion	17.8	19.1	19.8	18.9	MJ/kg

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results relate only to the sample or samples tested. The above test results are designed to provide THE
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content and format of the advertisement have been approved in advance by the Managing Director of
AWTA Ltd.



[Signature]

APPROVED SIGNATORY

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

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Initial thickness	20.0	20.0	20.0	20.0	mm
Initial mass	492.8	467.3	499.9	486.7	g
Mass remaining	459.3	422.8	467.5	449.9	g
Mass percentage pyrolysed	6.8	9.5	6.5	7.6	%
Mass loss	33.5	44.5	32.4	36.8	g
Average rate of mass loss	2.1	2.8	2.0	2.3	g/m ² .s

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

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

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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MANAGING DIRECTOR