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 Australia

EWFA Test Report No.	26224-00a.1	Page 1 of 2
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Report Sponsor	Issue Date
LETO Bamboo, 9 Glenvale Crescent, Mulgrave, VIC 3170.	26/09/11

Test In accordance with AS/NZS 3837-1998

Objective
To determine the performance of the material samples as described in this report when subjected to the test conditions stated in the test standard referenced below



Product	Strandwoven bamboo carbonised in colour, an engineered bamboo.
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Test Reference	Reference Date
EWFA 2622400a	26 th September 2011

Test Method	Supplementary Standards
AS/NZS 3837-1998 This report should be read in conjunction with this standard.	BSEN 13238-2001

Product Description

The three specimens tested were 100.9mm by 100.8mm by 19.6mm thick samples of an engineered bamboo product, nominated by the test sponsor as a standwoven engineered bamboo carbonised in colour. These material samples were manufactured by the sponsor of this test to form small plaques nominally 19.6mm thick and having a nominal density of 808.8 kg/m³. The test specimens were supplied fully prepared for testing by the test sponsor and EWA personnel were not involved with either the selection or preparation of these test specimens. Prior to testing, the specimens were conditioned in accordance with BSEN 13238-2001 at a temperature of 23 +/- 2 deg C and relative humidity of 50 +/- 5% for a continuous period of more than 48 hours.

TESTING AUTHORITY	Exova Warringtonfire Aus Pty Ltd
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Authorisation	Prepared By:  J. D. Richardson
	Reviewed By:  K. G. Nicholls

Test Results

Full details of the test results obtained from these three tests are shown in the attached sheets, where the samples were taken from specimens numbered bwa-cc-613 to bwa-cc-618, respectively, whereas a summary of these test details are given below.

	Specimen			Mean	Units
	One	Two	Three		
Irradiance	50	50	50	50	kW/m ²
Exhaust Flow Rate	24	24	24	24	l/sec
Time to Sustained Flaming	34	35	34	34	secs
Test Duration	1964	1710	1867	1847	secs
Peak Heat Release Rate after Ignition	163.9	165.1	147.8	159.0	kW/m ²
Average Heat Release Rate @ 60s	136.0	118.7	110.1	121.6	kW/m ²
Average Heat Release Rate @180s	140.7	132.4	120.1	131.1	kW/m ²
Average Heat Release Rate @ 300s	134.6	132.8	119.6	129.0	kW/m ²
Total Heat Released	171.8	161.3	144.1	159.1	MJ/m ²
Average Effective Heat of Combustion	11.1	11.1	9.6	10.6	MJ/kg
Initial Thickness	20.0	20.0	20.0	20.0	mm
Initial Mass	163.7	156.0	161.2	160.3	grams
Mass Remaining	37.9	38.0	38.9	38.3	grams
Mass Percentage Pyrolysed	76.8	75.6	75.9	76.1	%
Average Rate of Mass Loss	8.0	8.7	8.2	8.3	g/m ² /s
Average Specific Extinction Area	45.9	35.2	43.6	41.6	

Throughout each test the specimens were subjected to a constant radiant heat flux of 50kW/m².

These tests were conducted with a wire grid placed over the sample during testing. This was done to contain the sample within the sample holder and to stop the sample from curling around the igniter.

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. However, the results of these tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Conditions/Validity

These tests have been conducted in accordance with the standard referenced above and this report should be read in conjunction with that standard. The tests were performed at AWTA laboratories under the technical control of Exova Warringtonfire Aus Pty Ltd. This test report does not provide an endorsement by Exova Warringtonfire Aus Pty Ltd of the performance of the actual products supplied.