

AWTA PRODUCT TESTING

A Division of Australian Wool Testing Authority Limited

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A.B.N. 43 006 014 106

Group Number Assessment (in accordance with AS 5637.1-2015)

Number: 7-598918-CV
Issue Date: 06/09/2016

This is to confirm that the product as described below has been tested by AWTA Product Testing.

Testing was performed in accordance with AS/NZS 3837 - 1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

AWTA Product Testing report number: 7-598918-CV

Date of Test: 11/08/2014

Test Sponsor

The Laminex Group
90-94 Tram Road
Doncaster Vic 3108

Sponsor Product Reference: "Trade Essentials Birch Plywood"

Sponsor Product Description: Plywood samples

Colour: Natural

Nominal Composition: White birch ply bonded with Phenol formaldehyde. Thickness: 12mm Approx.

Density: 690kg/m³

Product Group Number Classification: Group 3
Average Specific Extinction Area: 36.5m²/kg

Chris Campbell
Client Relations Manager

It should be borne in mind that the opinions expressed in this letter are based on a limited number of observations made on a single sample and may be subject to alteration if more detailed testing was to be carried out. We recommend that you have further testing conducted if the information above is critical to your decisions on this product.

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P.O. Box 240, North Melbourne, Victoria 3051
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TEST REPORT

CLIENT : THE LAMINEX GROUP
90-94 TRAM ROAD
DONCASTER VIC 3108

TEST NUMBER : 7-598918-CV
ISSUE DATE : 11/08/2014
PRINT DATE : 11/08/2014

SAMPLE DESCRIPTION Clients Ref: "Birch Plywood"
12mm plywood samples
Nom Com: White Birch ply bonded with Phenol formaldehyde
Nom Density: 690+/-10kg/m³ Colour: Natural
End Use: Ceiling & Wall Linings

AS/NZS 3837:1998 Method of Test for Heat and Smoke Release Rates
for Materials and Products Using an Oxygen
Consumption Calorimeter

Results:-

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	53.3	49.9	49.3	50.9	kW/m ²
Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	35.6	34.0	39.9	36.5	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	30	30	29	30	s
Test duration	2805	2535	2690	2677	s

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

Peak heat release after ignition	341.8	310.7	320.1	324.2	kW/m ²
Average heat at 60s	148.2	155.4	139.6	147.7	kW/m ²
Release rate at 180s	141.2	147.7	144.5	144.5	kW/m ²
After ignition at 300s	142.3	139.5	138.7	140.2	kW/m ²
Total heat released	148.0	125.1	131.3	134.8	MJ/m ²
Average effective heat of combustion	16.5	14.4	15.5	15.5	MJ/kg

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This Laboratory is accredited by the National Association of Testing Authorities, Australia, for:
-Chemical Testing of Textiles & Related Products : Accreditation No. 983
-Mechanical Testing of Textiles & Related Products : Accreditation No. 985
-Heat & Temperature Measurement : Accreditation No. 1356

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Initial thickness	12.0	12.0	12.0	12.0	mm
Initial mass	75.5	72.0	71.7	73.1	g
Mass remaining	2.9	1.3	2.8	2.3	g
Mass percentage pyrolysed	96.2	98.2	96.1	96.8	%
Mass loss	72.6	70.7	68.9	70.7	g
Average rate of mass loss	3.2	3.5	3.2	3.3	g/m2.s

The formulae given in the Building Code of Australia have been shown to give inaccuracies in determination of Group Number for certain materials. Due to this AWTA Product Testing no longer reports Group Numbers. The formulae for calculation of Group Number is available from the website of the Australian Building Codes Board. Group Number calculation based on the results described in this report can be undertaken at the clients discretion

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder

"The 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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APPROVED SIGNATORY

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