

**Sponsor**

Gunnensen Timbermark Pty Ltd,
112 Salmon Street,
Port Melbourne,
Victoria 3207.

AS/NZS 3837-1998 Test on Embossed Resilience Paper on 3-Ply Plywood Wall Panelling

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

Embossed Resilience Paper on 3-Ply Meranti Plywood Timber Wall Panelling

Test Reference

WFRA 2210000

Date of Test

24th September 2007

Test Method

AS/NZS 3837-1998
This report should be read in conjunction with this standard.

Supplementary Standards

BSEN 13238-2001

Product Description

The three specimens tested were 100mm by 100mm by 2.78mm thick samples of embossed Resilience paper overlay adhered onto 3-ply Meranti plywood timber wall panelling with a urea formaldehyde bond. Three colours were tested, Nizza Yellow, Apple Plan and Renior Beech. These material samples were manufactured by the sponsor of this test to form a wall panel nominally 2.78mm thick and having a mass per m² of 1.53kg. The exposed face was embossed Resilience paper overlay. The test specimens were supplied fully prepared for testing by the test sponsor and WFRA 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

Warrington Fire Research (Aust) Pty Ltd

Address

PO Box 4282 DANDENONG SOUTH VIC 3164
Unit 2, 409-411 Hammond Road DANDENONG VIC 3175

Phone / Fax

61 (0)3 9767 1000 / 61 (0)3 9767 1001

ABN

81 050 241 524

Email / Home Page

testing@wfra.com.au / www.wfra.com.au

Authorisation

Prepared By:

Reviewed By:

J. D. Richardson.

K. G. Nicholls

Test Results

Full details of the test results obtained from these three tests are shown in the attached sheets, numbered wfr-cc-938, specimen 1, wfr-cc-939, specimen 2 and wfr-cc- 940, specimen 3, respectively, whereas a summary of these test details are given below.

	Specimen	Specimen	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	25	18	16	20	secs
Test Duration	483	483	343	436	secs
Peak Heat Release Rate after Ignition	225.2	370.6	273.7	289.8	kW/m ²
Average Heat Release Rate @ 60s	196.7	193.5	196.6	195.6	kW/m ²
Average Heat Release Rate @180s	107.3	125.5	110.1	114.3	kW/m ²
Average Heat Release Rate @ 300s	78.8	90.3	74.9	81.3	kW/m ²
Total Heat Released	26.3	28.9	23.9	26.4	MJ/m ²
Average Effective Heat of Combustion	17.2	16.3	18.0	17.1	MJ/kg
Initial Thickness	2.8	2.8	2.8	2.8	mm
Initial Mass	15.1	17.1	13.1	15.1	grams
Mass Remaining	1.3	1.0	0.7	1.0	grams
Mass Percentage Pyrolysed	91.4	94.2	94.7	93.4	%
Average Rate of Mass Loss	3.3	3.8	2.8	3.3	g/m ² /s

The above tests were conducted with the three specimens located in a horizontal position. Throughout each test the specimens were subjected to a constant radiant heat flux of 50kW/m². The sample was laid onto a refractory fire blanket .

These test results relate only to the behaviour of the product under the conditions of the test. 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 AS/NZS 3837-1998 "Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter" and this report should be read in conjunction with that standard. The tests were performed at AWTA laboratories under the technical control of Warrington Fire Research (Aust) Pty Ltd. This test report does not provide an endorsement by Warrington Fire Research (Aust) Pty Ltd of the performance of the actual products supplied.