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

AS/NZS 3837-1998 Test on Embossed Polyester Coated 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 Polyester Coated Paper on 3-Ply Meranti Plywood Timber Wall Panelling

Test Reference	Date of Test
WFRA 2210000	6th September 2007

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 100mm by 100mm by 3.71mm thick samples of beige polyester coated fire-retardant treated embossed paper overlay fixed with a urea formaldehyde bond onto 3-ply Meranti plywood timber wall panelling. These material samples were manufactured by the sponsor of this test to form a wall panel nominally 3.7mm thick and having a mass per m^2 of 2.3kg. The exposed face was a beige polyester coated fire-retardant treated embossed 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
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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, numbered wfr-cc-924, specimen 1, wfr-cc-922, specimen 2 and wfr-cc- 920, specimen 3, respectively, whereas a summary of these test details are given below.

	Specimen One	Specimen Two	Specimen Three	Mean	Units
Irradiance	50	50	50	50	kW/m^2
Exhaust Flow Rate	24	24	24	24	l/sec
Time to Sustained Flaming	23	11	12	15	secs
Test Duration	507	430	440	459	secs
Peak Heat Release Rate after Ignition	299.7	303.7	281.3	294.9	kW/m^2
Average Heat Release Rate @ 60s	128.5	137.1	124.5	130.0	kW/m^2
Average Heat Release Rate @180s	145.0	148.3	150.3	147.9	kW/m^2
Average Heat Release Rate @ 300s	99.6	100.5	102.4	100.8	kW/m^2
Total Heat Released	34.9	33.2	34.0	34.0	MJ/m^2
Average Effective Heat of Combustion	16.0	14.9	14.9	15.2	MJ/kg
Initial Thickness	3.7	3.7	3.7	3.7	mm
Initial Mass	21.6	22.3	23.0	22.3	grams
Mass Remaining	3.5	4.1	4.5	4.0	grams
Mass Percentage Pyrolysed	83.8	81.6	80.4	81.9	%
Average Rate of Mass Loss	4.5	5.4	5.3	5.1	$g/m^2/s$

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 $50kW/m^2$. The sample was laid onto a refractory fire blanket and wire grid was placed over the sample during testing to contain the sample and prevent the sample from curling around the igniter.

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.