

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd – trading as AWTA Product Testing
A.B.N. 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O. Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

CLIENT : AUSTRALIAN WOOD PANELS
PO BOX 216
WEST BURLEIGH QLD 4219
AUST

TEST NUMBER : 7-555144-CQ
DATE : 21/09/2007
ORDER NUMBER : 1293

SAMPLE DESCRIPTION Clients ref: "Alpine"
Reconstituted wood panels - MDF Colour: light brown
Nom comp: medium density fibreboard - wood fibres or
particles and synthetic resins
Nom density: 600-700kg/m³ Nominal thickness: 16mm

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

Results:-

	1	Specimen 2	3	Mean	
Average Heat Release Rate	86.5	83.1	83.2	84.3	kW/m ²
Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	89.1	71.8	53.0	71.3	m ² /kg

BCA Classification:-
Group Classification 3 3 3
(according to Specification A2.4 of the Building Code of Australia)

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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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0204/11/06

APPROVED SIGNATORY

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

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Test orientation: Horizontal

	Specimen 1	Specimen 2	Specimen 3	Mean	
Irradiance	50	50	50	50	kW/m2
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	27	23	27	26	s
Test duration	1825	1845	1945	1872	s

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

Peak heat release after ignition	239.9	232.7	232.5	235.0	kW/m2
Average heat at 60s	179.5	170.2	180.1	176.6	kW/m2
Release rate at 180s	141.0	140.2	141.3	140.8	kW/m2
After ignition at 300s	124.1	125.7	124.2	124.7	kW/m2
Total heat released	155.5	151.2	159.4	155.4	MJ/m2
Average effective heat of combustion	13.9	13.4	14.2	13.8	MJ/kg

Initial thickness	16.0	16.0	16.0	16.0	mm
Initial mass	120.5	120.8	120.3	120.5	g
Mass remaining	20.8	21.0	20.6	20.8	g
Mass percentage pyrolysed	82.7	82.6	82.9	82.7	%
Mass loss	99.7	99.8	99.7	99.7	g
Average rate of mass loss	6.2	6.2	5.9	6.1	g/m2.s

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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APPROVED SIGNATORY

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