

# 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 : UNIBOND PTY LTD  
BUILDING B1, 22 POWERS ROAD  
SEVEN HILLS NSW 2147

TEST NUMBER : 7-562577-CN  
DATE : 21/10/2008

SAMPLE DESCRIPTION Clients Ref: "Unibond Composite Panels" Colour: Silver face  
Aluminium composite panel with a core comprising of  
polyethylene, aluminium hydroxide and flame retardant  
compounds and a 0.5mm thick aluminium skin on both faces  
Face - finished with a PVDF Kynar 500 coating, Back - mill  
finish Nom. Mass: 5500g/m<sup>2</sup> Nom. Thickness: 4.0mm

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	fti	fti	fti	fti	kW/m <sup>2</sup>
Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	98.9	163.1	169.1	143.7	m <sup>2</sup> /kg

BCA Classification:-

Group Classification 1 1 1  
(according to Specification A2.4 of the Building Code of Australia)

Test orientation: Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	fti	fti	fti	fti	s
Test duration	592	600	600	597	s

fti = failed to ignite

170813

1

(CONTINUED NEXT PAGE)

PAGE 1

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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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*Sandolac*  
APPROVED SIGNATORY

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

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Initial thickness	4.0	4.0	4.0	4.0	mm
Initial mass	65.7	72.1	66.1	68.0	g
Mass remaining	63.2	68.7	63.0	65.0	g
Mass percentage pyrolysed	3.8	4.7	4.7	4.4	%
Mass loss	2.5	3.4	3.1	3.0	g
Average rate of mass loss	0.5	0.6	0.6	0.6	g/m2.s

Specimens tested failed to ignite within 10 minutes and testing was ceased as per Section 2.5.2(i)

The sample has a heat release rate of less than 50kW/m<sup>2</sup>. The formulas given in the Building Code of Australia do not allow the calculation of a group in these circumstances. A product with very low heat release rates like this product is classified as a group 1 material or better according to advise from the Australian Building Codes Board

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

170813

PAGE 2

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