

# 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 : QUALIFIRE  
2 WEBSTER STREET  
PORT ADELAIDE SA 5015

TEST NUMBER : 7-573312-CS  
ISSUE DATE : 21/06/2010  
PRINT DATE : 23/06/2010

SAMPLE DESCRIPTION Clients Ref: "QRT-100(A)"  
Clear fire retardant coating for timber panels  
Nominal Composition: Radiata pine panel with QRT-100 (Q) on  
face  
Nominal Thickness: 10mm Colour: Clear  
End Use: Internal wall/ceiling and timber fixtures

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	58.5	50.6	49.4	52.8	kW/m2

Average Specific extinction Area (according to Specification C1.10 of the Building Code of Australia)	16.3	14.7	16.3	17.3	m2/kg
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### BCA Classification:-

Group Classification 2 2 2  
(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/m2
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	22	23	26	24	s
Test duration	1072	1052	1008	1044	s

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

Peak heat release after ignition	151.4	147.1	175.3	158.0	kW/m2
Average heat at 60s	52.3	34.2	34.9	40.5	kW/m2
Release rate at 180s	49.6	53.6	44.7	49.3	kW/m2
After ignition at 300s	72.6	64.0	67.6	68.1	kW/m2
Total heat released	55.3	48.7	54.5	52.8	MJ/m2
Average effective heat of combustion	8.3	7.4	8.5	8.1	MJ/kg

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-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	10.0	10.0	10.0	10.0	mm
Initial mass	60.0	61.8	61.1	61.0	g
Mass remaining	54.8	54.6	53.2	54.2	g
Mass percentage pyrolysed	8.6	11.7	12.9	11.1	%
Mass loss	5.2	7.2	7.9	6.8	g
Average rate of mass loss	3.6	3.5	3.6	3.3	g/m2.s

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

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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( END OF REPORT )

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