

# 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

## Group Number Assessment

(In accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

This is to confirm that the product as described below has been tested by AWTA Product Testing.

Testing was performed in accordance with ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

---

**Test Sponsor :** Materialised Pty Ltd  
19 Heath Road  
Blakehurst NSW 2221

**Test Number :** 26-001942  
**Issue Date :** 12/06/2026  
**Print Date :** 12/06/2026

---

**Sponsor Product :** Clients Ref : "Blue Collection -20oz Wall Vinyl - Osnaburg Backing"  
Wall Covering Sample  
Colour : Grey  
End Use : Wall Covering  
Nominal Composition : Vinyl with Osnaburg backing  
Nominal Mass per Unit Area/Density : 20oz/yd2  
Nominal Thickness : Approx: 1mm



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Product Group Number Classification : 2S  
Average Specific Extinction Area : 72.1 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

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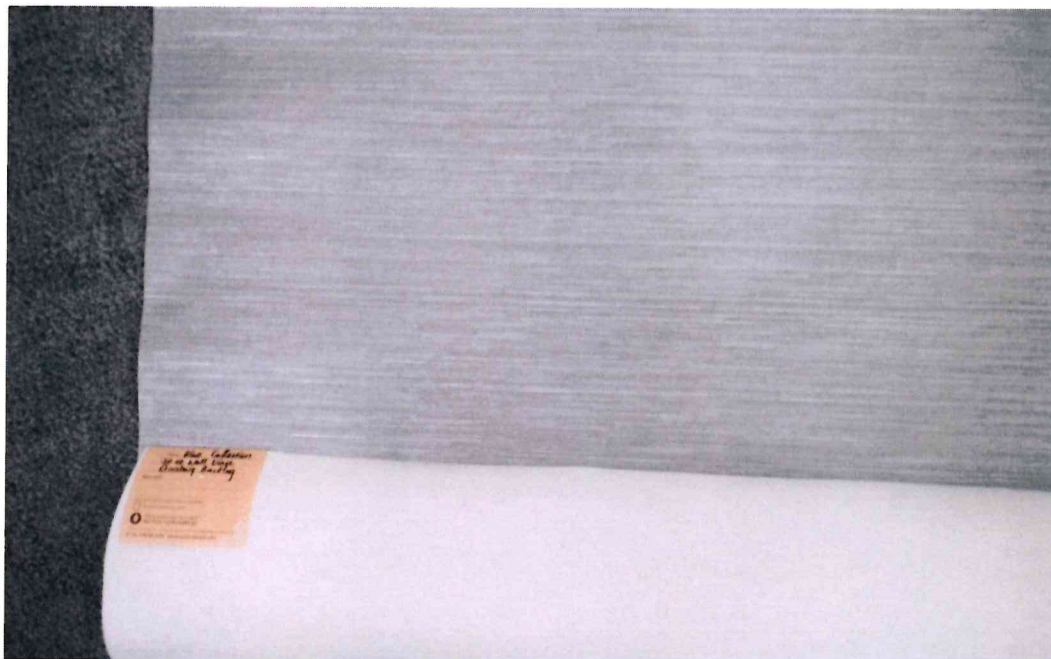
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## TEST REPORT

**Client :** Materialised Pty Ltd  
19 Heath Road  
Blakehurst NSW 2221

**Test Number :** 26-001942  
**Issue Date :** 11/06/2026  
**Print Date :** 12/06/2026  
**Order Number :** PO 004928

**Sample Description** Clients Ref : "Blue Collection -20oz Wall Vinyl - Osnaburg Backing"  
Wall Covering Sample  
Colour : Grey  
End Use : Wall Covering  
Nominal Composition : Vinyl with Osnaburg backing  
Nominal Mass per Unit Area/Density : 20oz/yd2  
Nominal Thickness : Approx: 1mm



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

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### ISO 5660.1-2015

Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 11-06-2026  
Operator AWTA Test Operator 21  
Face Tested Face

	Specimen			
	1	2	3	Mean
Average Heat Release Rate	9.9	16.5	7.8	11.4 kW/m <sup>2</sup>
Average Specific extinction area	56.6	64.6	95.1	72.1 m <sup>2</sup> /kg

Test orientation : Horizontal

	Specimen			
	1	2	3	Mean
Irradiance	50	50	50	50 kW/m <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024 m <sup>3</sup> /s
Time to sustained flaming	12	14	17	14 sec
Test duration	1812	1814	1817	1814 sec
Peak heat release after ignition	114.9	112.0	123.2	116.7 kW/m <sup>2</sup>
Average heat at 180 s	45.0	47.1	46.6	46.2 kW/m <sup>2</sup>
Average heat at 300 s	32.5	34.3	33.1	33.3 kW/m <sup>2</sup>
Total heat released	17.8	29.5	14.6	20.6 MJ/m <sup>2</sup>
Average effective heat of combustion	7.8	12.2	5.6	8.5 MJ/kg
Initial thickness	11	11	11	11.0 mm
Initial mass	67.2	69	69.4	68.5 g
Mass at sustained flaming	67.2	69.0	69.2	68.5 g
Mass remaining	48.5	49.2	49.0	48.9 g
Mass loss	2309.3	2444.9	2520.3	2424.8 g/m <sup>2</sup>
Average rate of mass loss	1.3	1.3	1.4	1.3 g/m <sup>2</sup> .s

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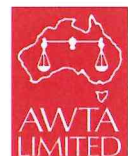


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MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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**Test Number :** 26-001942  
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**Order Number :** PO 004928

Total smoke Production (Non Flaming phase)	0.7	0.4	11.0	4.0	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Flaming phase)	182.3	190.5	261.2	211.3	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Non Flaming & Flaming phase)	183.0	190.9	272.2	215.3	m <sup>2</sup> /m <sup>2</sup>
C-Factor (Calibration Constant)	0.041376	0.041376	0.041442	-	
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Samples were adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

Retainer grid was used to contain the test specimen within the sample holder

Note: All calculations are based on ignition + 30 minutes.

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 assessment of performance under real fire conditions.

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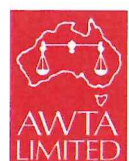
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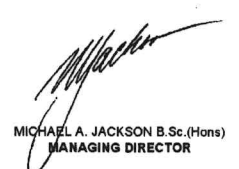
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0204/11/06

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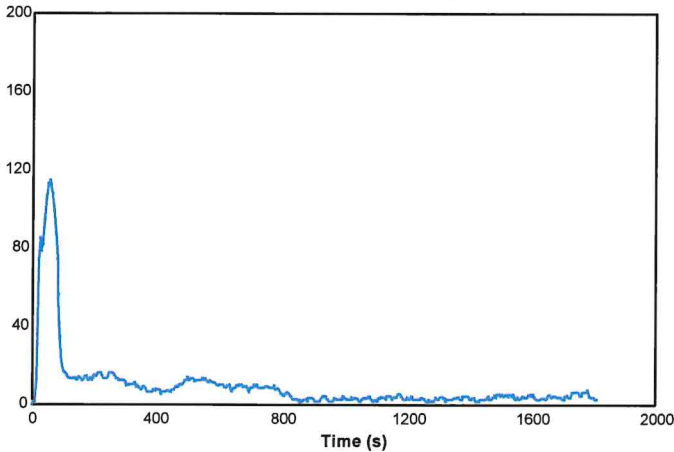
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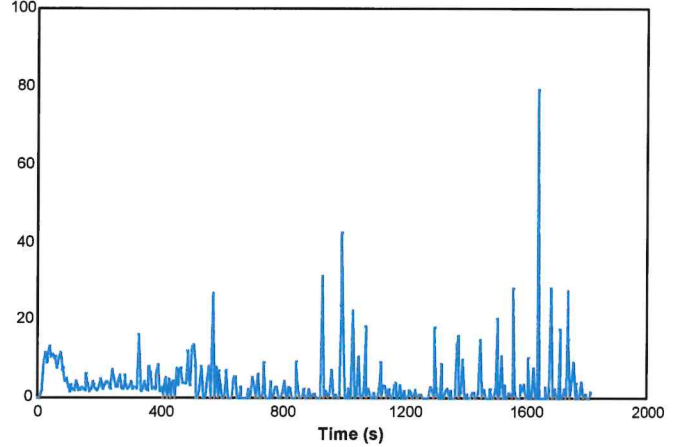
**Test Number :** 26-001942  
**Issue Date :** 11/06/2026  
**Print Date :** 12/06/2026  
**Order Number :** PO 004928

**Specimen :** 1

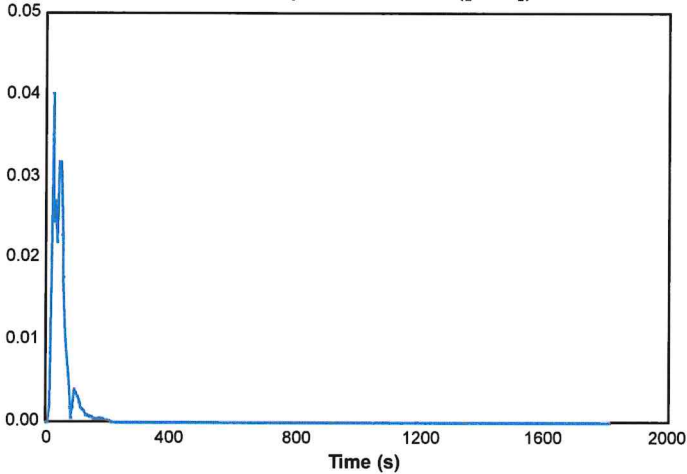
Heat release rate (kW/m<sup>2</sup>)



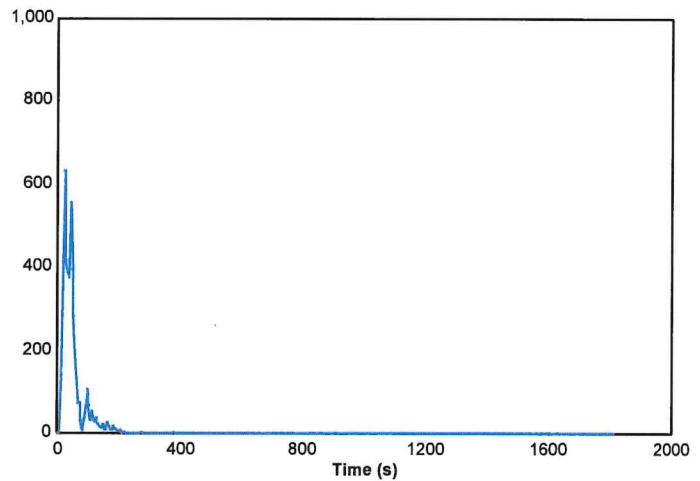
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m<sup>2</sup>/s)



Specific extinction area (m²/kg)



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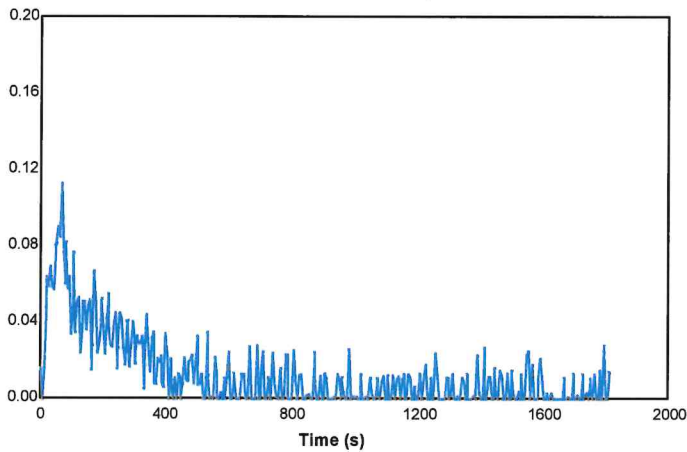
Phone (03) 9371 2400

## TEST REPORT

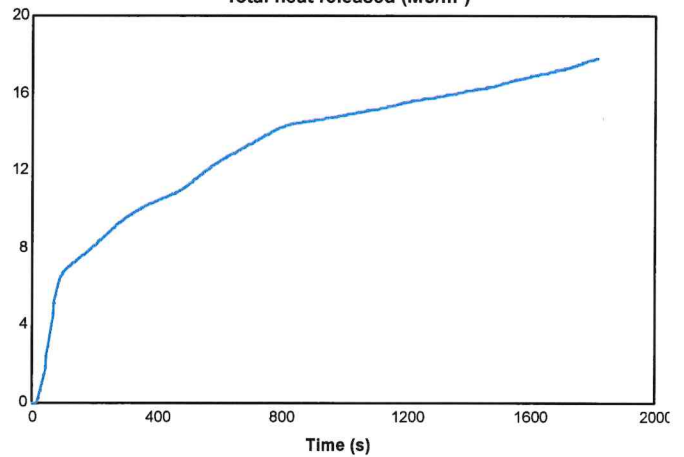
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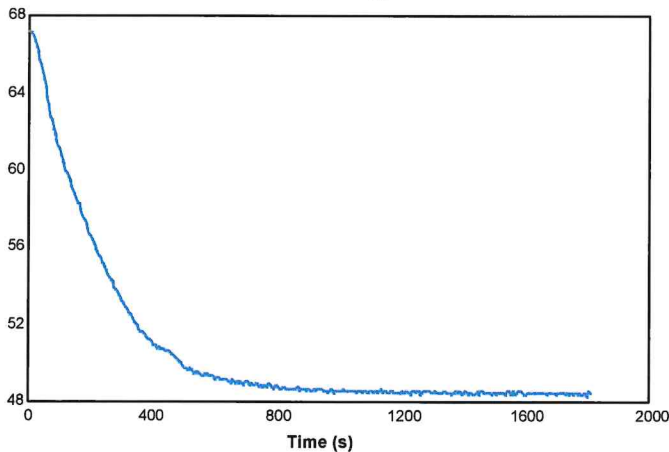
Mass loss rate (g/s)



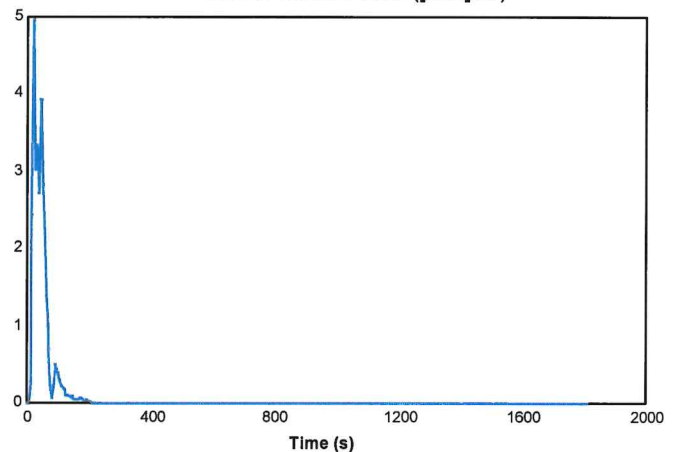
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>3</sup>/s]/m<sup>2</sup>)



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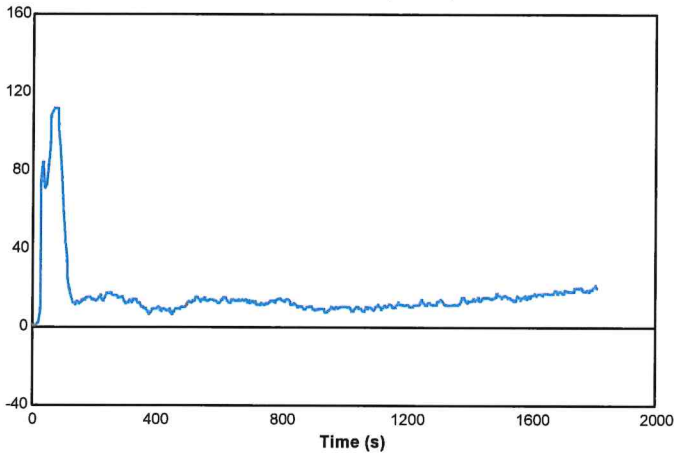
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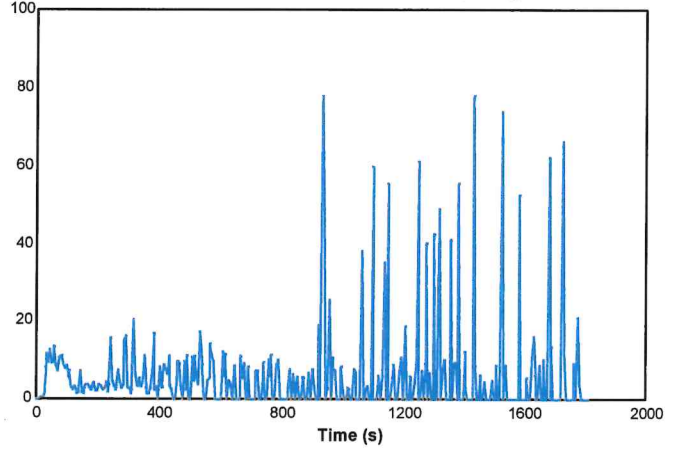
**Test Number :** 26-001942  
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**Order Number :** PO 004928

**Specimen :** 2

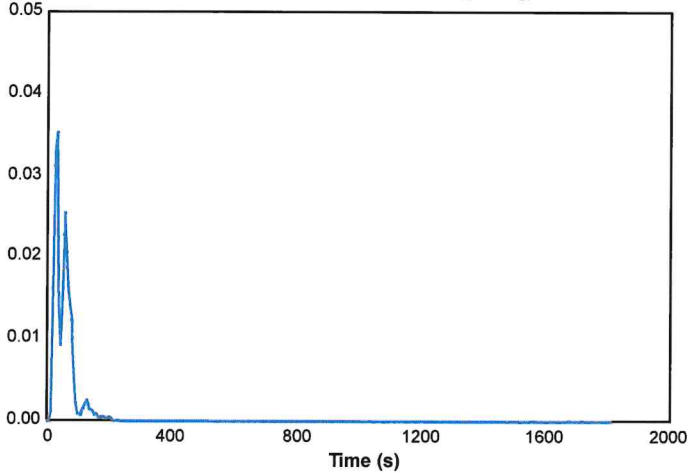
**Heat release rate (kW/m<sup>2</sup>)**



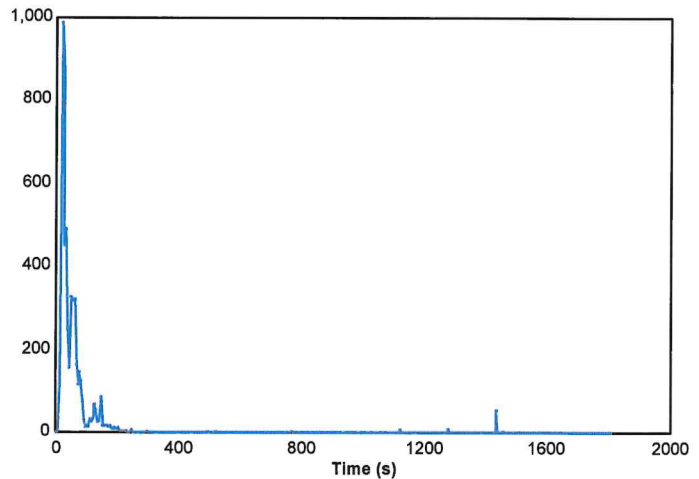
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



**Specific extinction area (m<sup>2</sup>/kg)**



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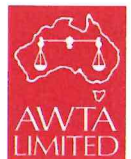
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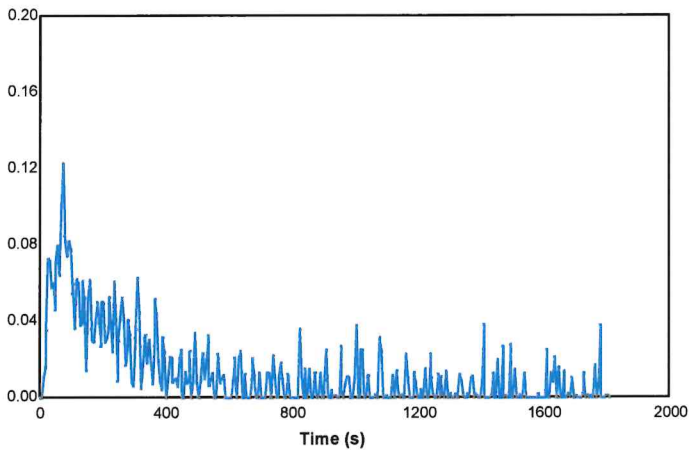
Phone (03) 9371 2400

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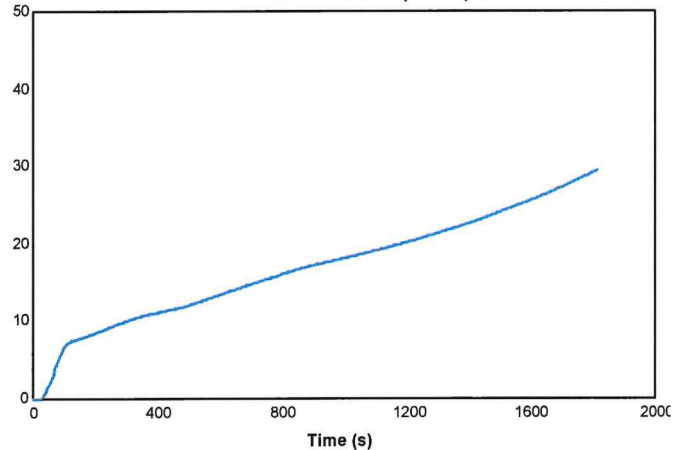
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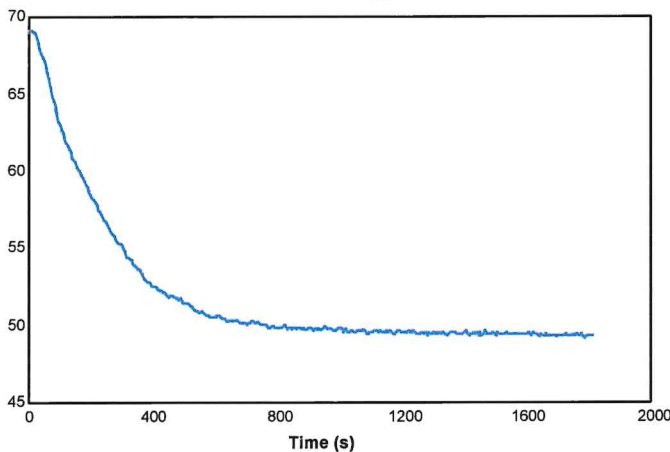
Mass loss rate (g/s)



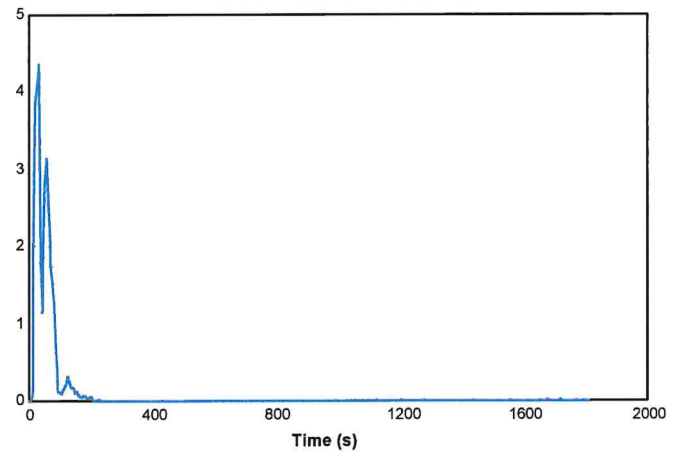
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s]/m<sup>2</sup>)



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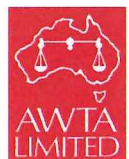
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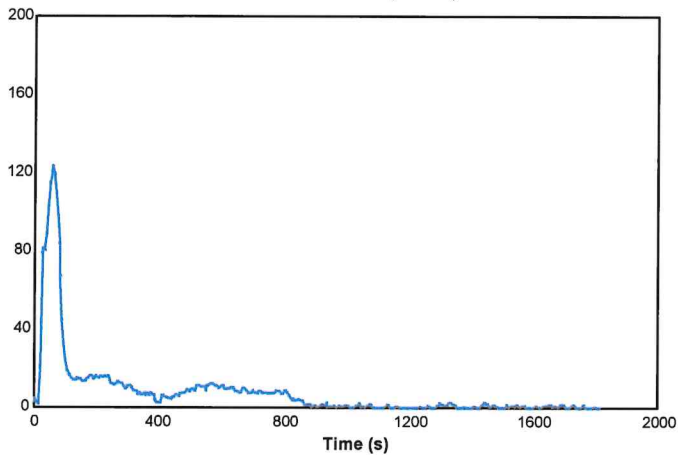
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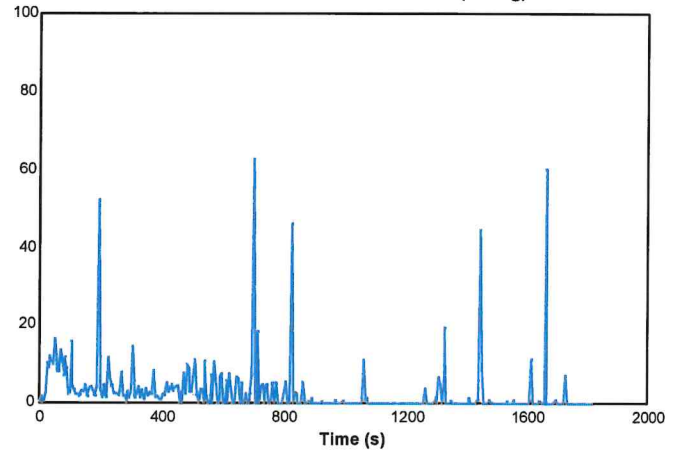
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**Specimen :** 3

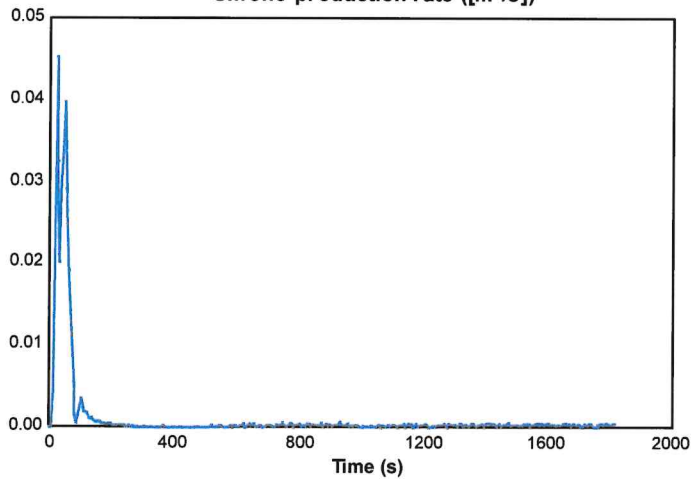
Heat release rate (kW/m<sup>2</sup>)



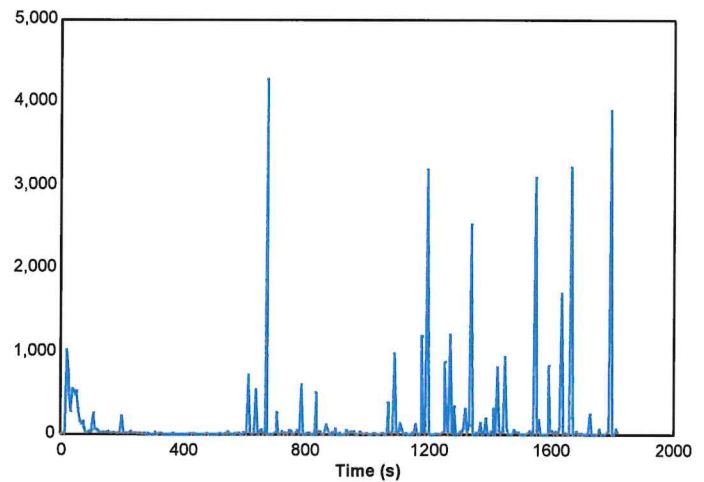
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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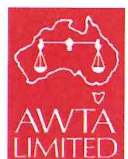
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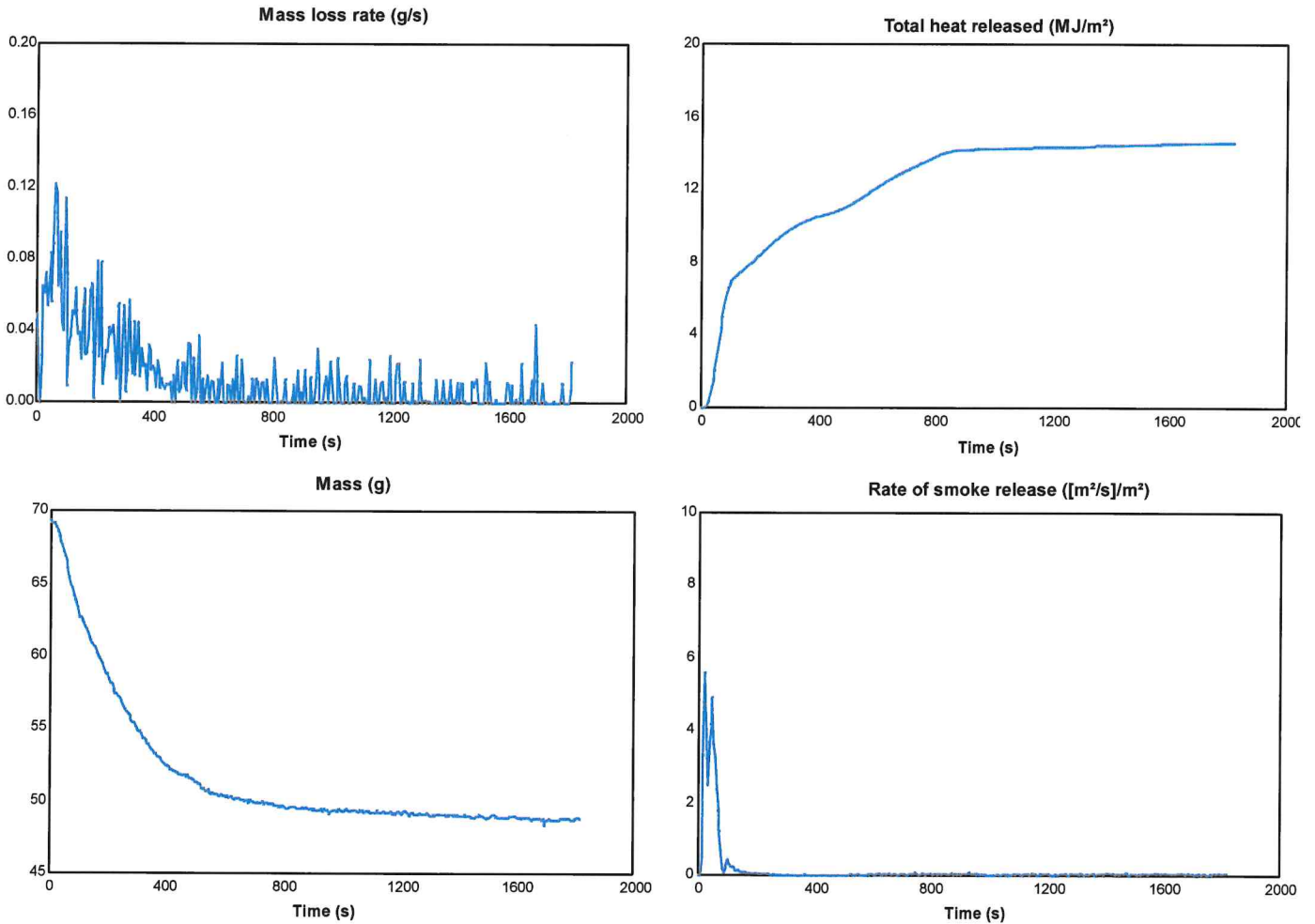
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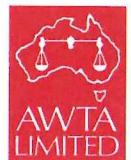
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*Michael A. Jackson*  
 MICHAEL A. JACKSON B.Sc.(Hons)  
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