

# 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

## 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 :** Tarkett Australia Pty Ltd  
Suite 1 Level 3  
3 Columbia Court  
Baulkam Hills NSW 2153

**Test Number :** 19-002755  
**Issue Date :** 7/08/2019  
**Print Date :** 7/08/2019

**Sponsor Product** Clients Ref : "IQ Surface Wall"  
Homogenous Vinyl Wall Cladding  
Nominal Composition : PVC  
Nominal Mass per Unit Area/Density : 3400g/m2  
Nominal Thickness : 2mm

Product Group Number Classification : 1S  
Average Specific Extinction Area : 75.1 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

36236

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Nominal Thickness : 2mm

### 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 06/08/2019  
Operator  
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	19.2	18.4	17.1	18.2	kW/m <sup>2</sup>
Average Specific extinction area	82.5	75.2	67.6	75.1	m <sup>2</sup> /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	49	49	46	48	sec
Test duration	1849	1849	1846	1848	sec
Peak heat release after ignition	91.6	93.5	92.8	92.6	kW/m <sup>2</sup>
Average heat at 180 s	69.3	71.7	66.1	69.0	kW/m <sup>2</sup>
Average heat at 300 s	49.3	51.3	47.8	49.5	kW/m <sup>2</sup>
Total heat released	34.7	33.2	31.0	33.0	MJ/m <sup>2</sup>
Average effective heat of combustion	7.7	7.4	7.6	7.6	MJ/kg

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APPROVED SIGNATORY

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

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Initial thickness	8	8	8	8.0	mm
Initial mass	121.8	123.4	120.6	121.9	g
Mass at sustained flaming	121.4	123.1	120.0	121.5	g
Mass remaining	85.4	87.1	87.7	86.7	g
Mass loss	4494.7	4483.2	4059.9	4345.9	g/m <sup>2</sup>
Average rate of mass loss	2.5	2.5	2.2	2.4	g/m <sup>2</sup> .s
Total smoke Production (Non Flaming phase)	28.0	15.5	22.6	22.0	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Flaming phase)	374.5	342.1	280.1	332.2	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Non Flaming & Flaming phase)	402.5	357.6	302.7	354.3	m <sup>2</sup> /m <sup>2</sup>
Specimen Surface area	0.00810	0.00810	0.00810	-	m <sup>2</sup>
C-Factor (Calibration Constant)	0.040966	0.040966	0.040966	-	-
Additional Observations	None				
Difficulties Encountered during Testing	None				

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 assessment of performance under real fire conditions.

Samples were adhered to a substrate of 6mm thick cement sheet using Professional Ultra Clear Pro 880 adhesive prior to testing

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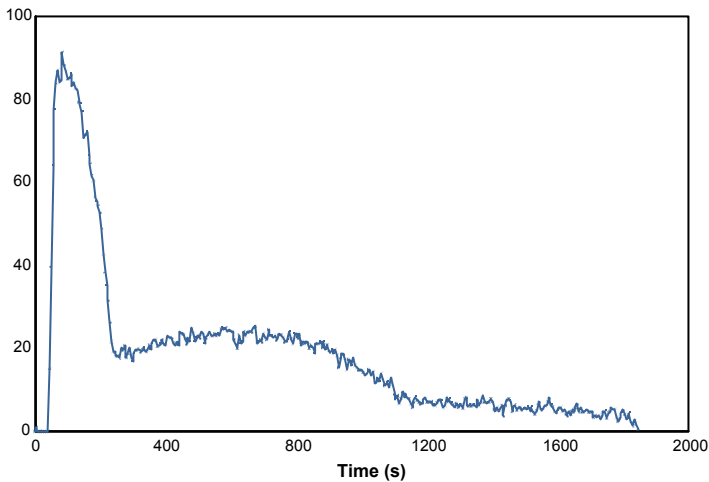
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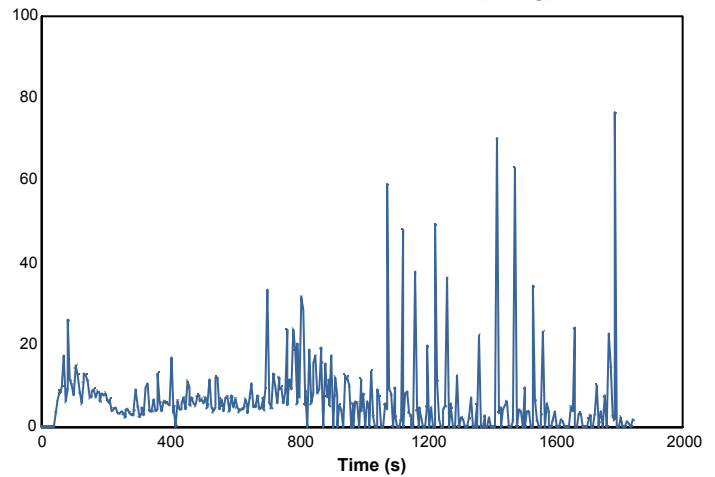
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**Issue Date :** 07/08/2019  
**Print Date :** 7/08/2019

**Specimen :** 1

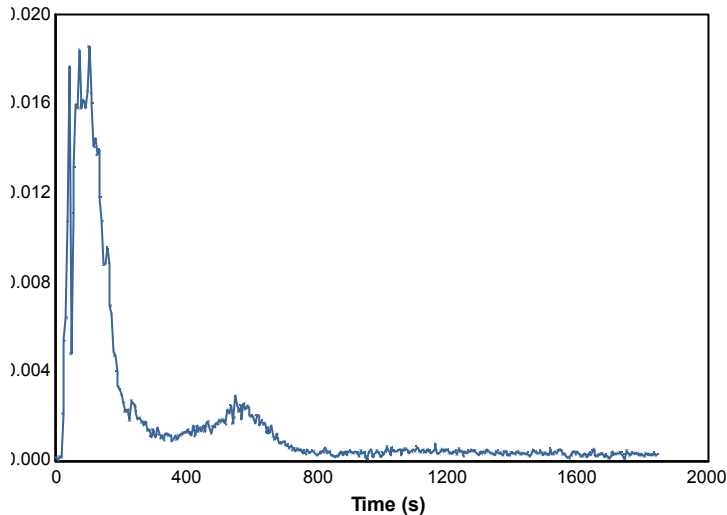
Heat release rate (kW/m<sup>2</sup>)



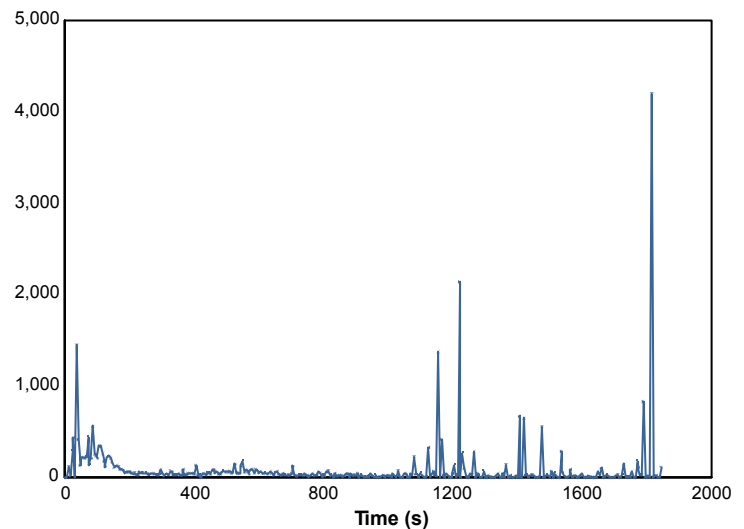
Effective heat of combustion (MJ/kg)



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



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



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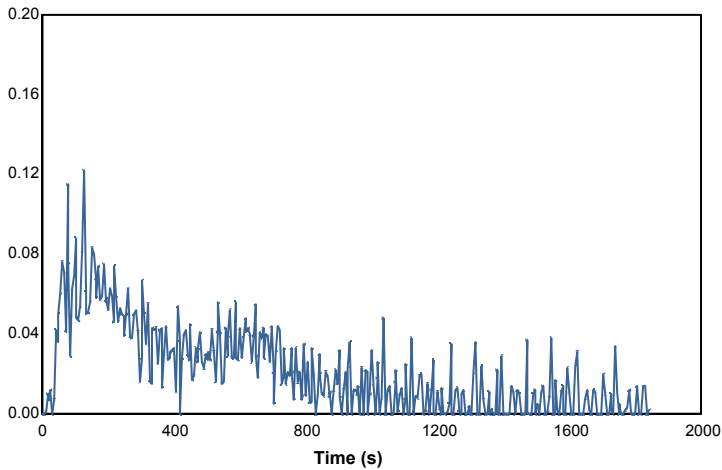
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

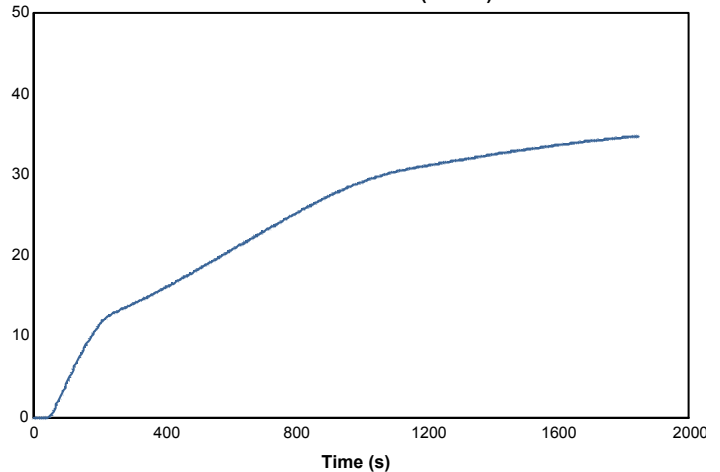
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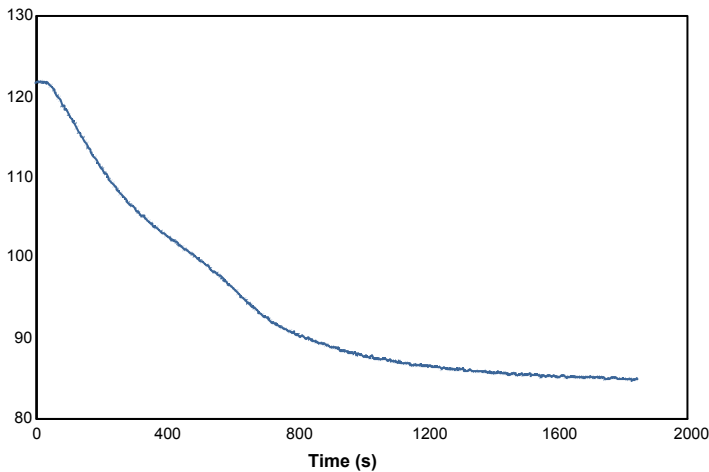
Mass loss rate (g/s)



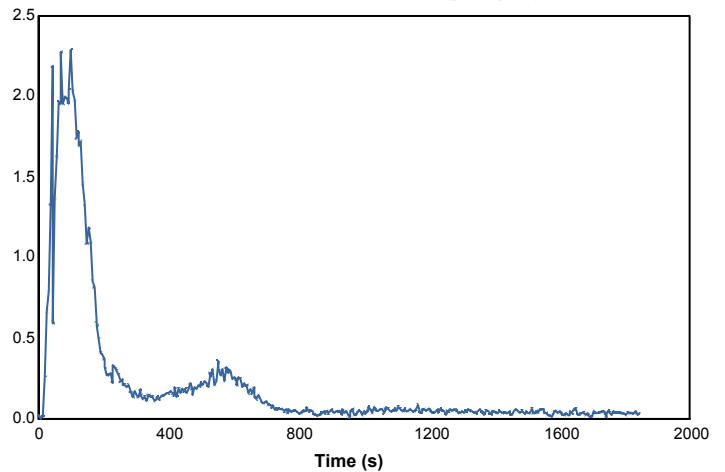
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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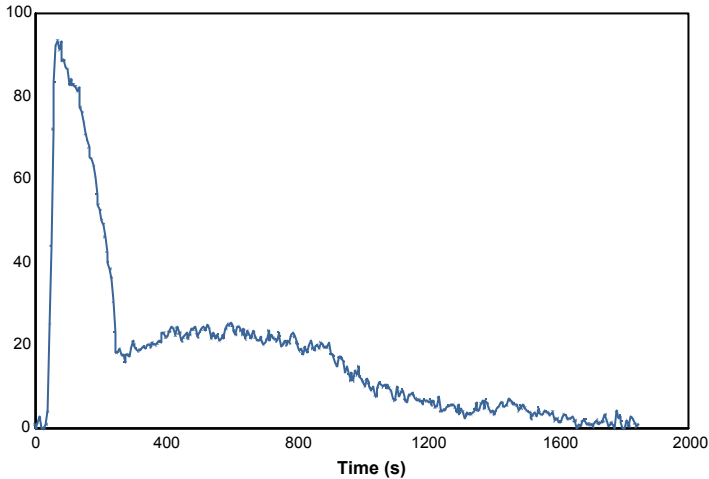
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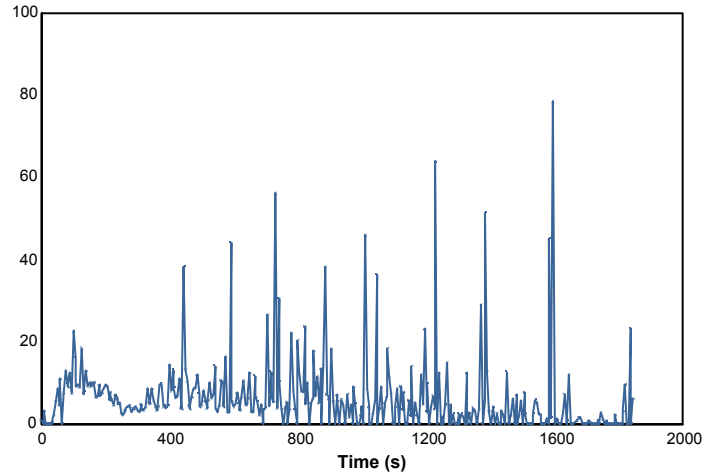
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**Specimen :** 2

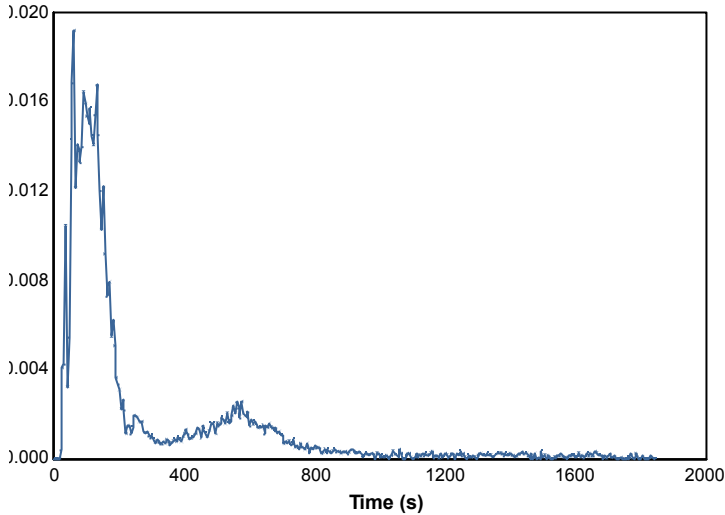
Heat release rate (kW/m<sup>2</sup>)



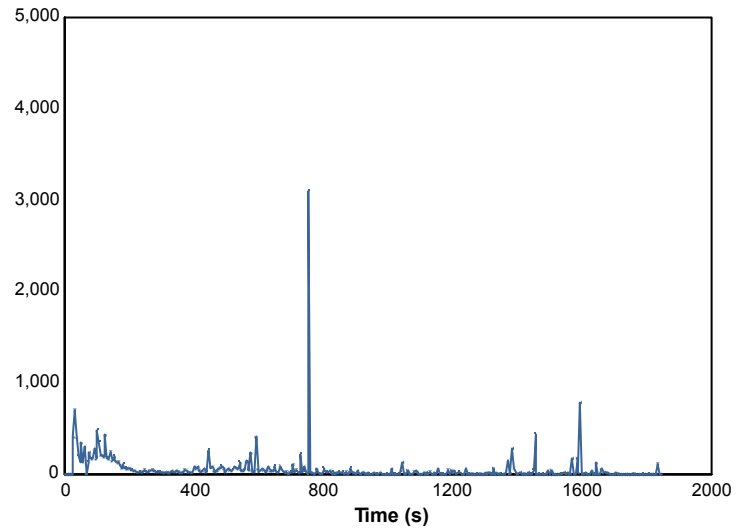
Effective heat of combustion (MJ/kg)



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



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



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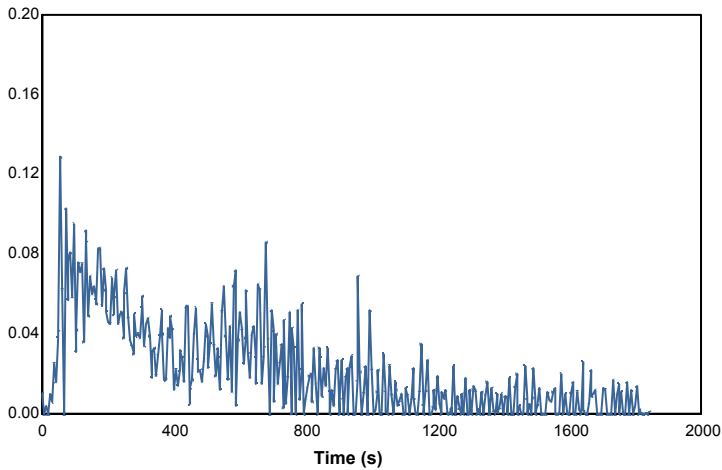
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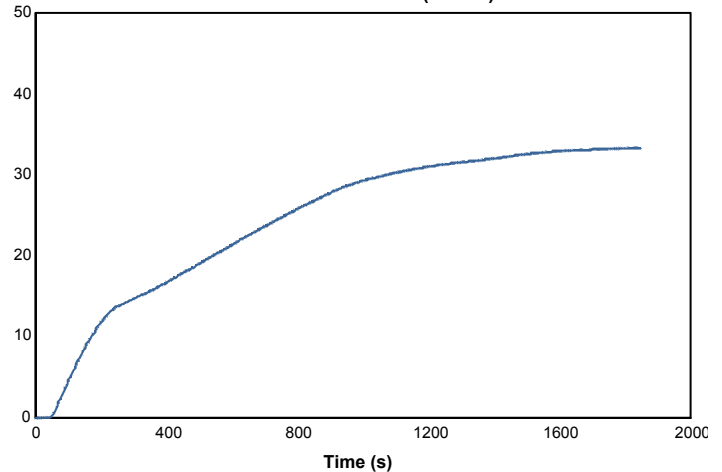
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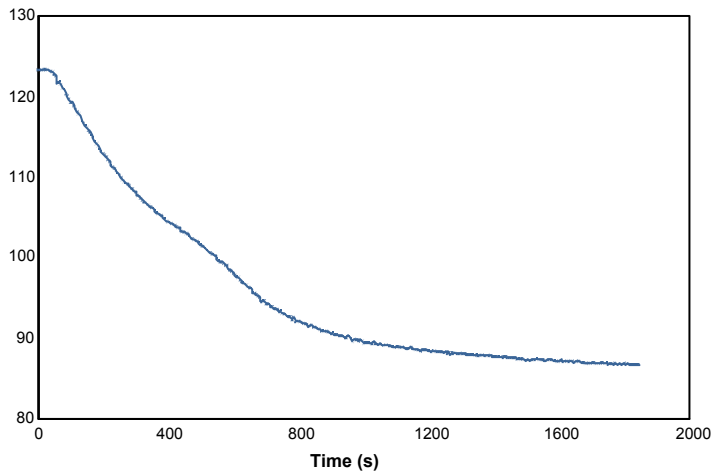
Mass loss rate (g/s)



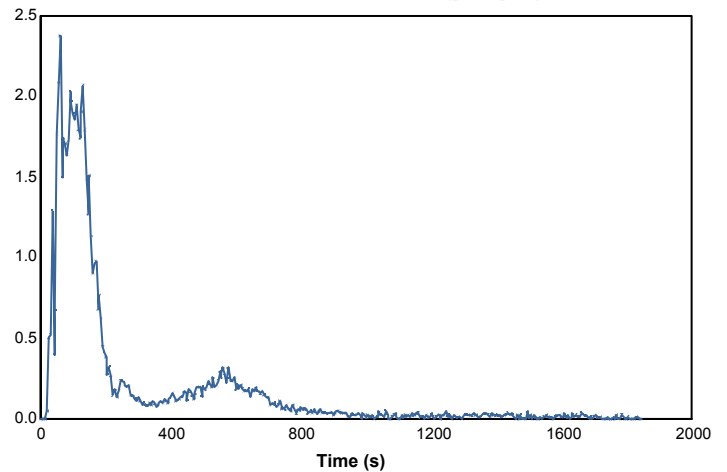
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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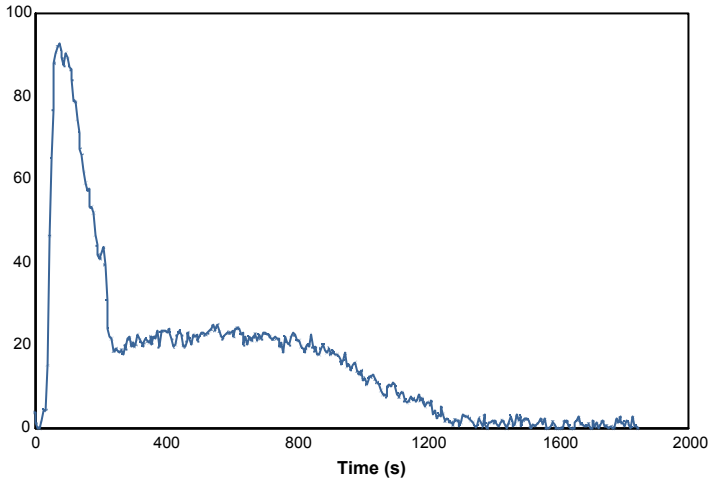
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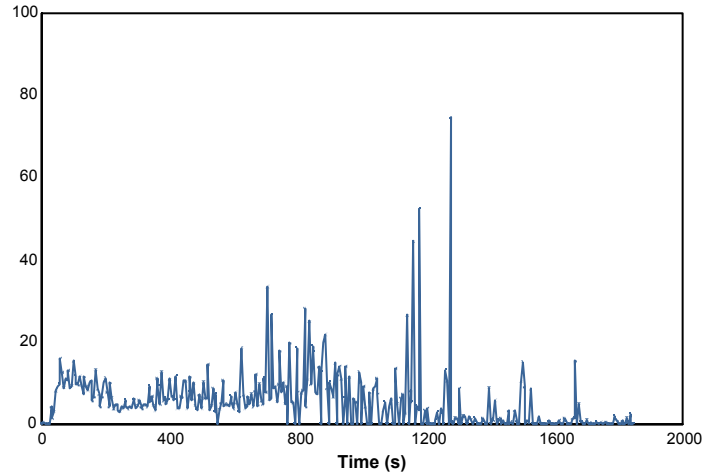
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**Specimen :** 3

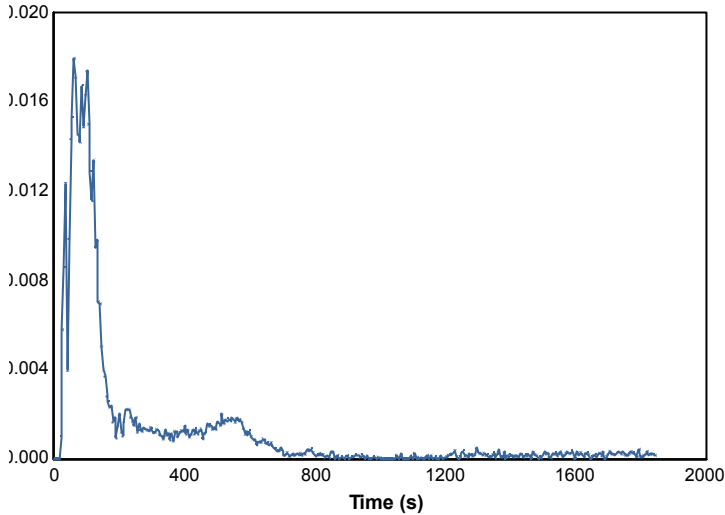
Heat release rate (kW/m<sup>2</sup>)



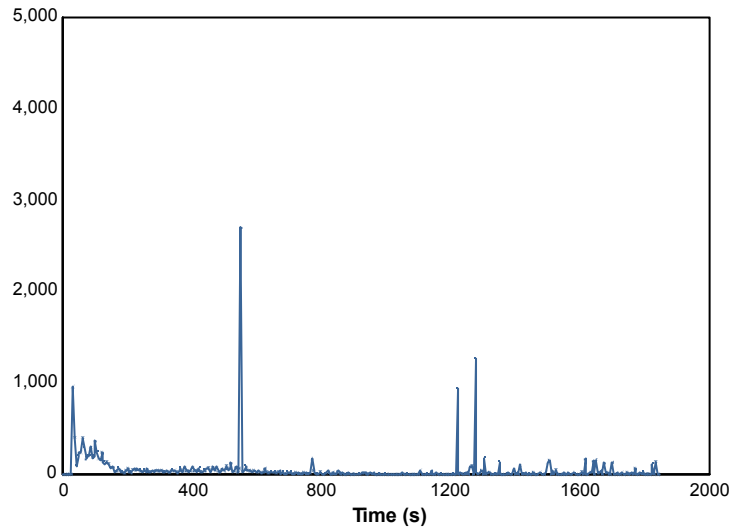
Effective heat of combustion (MJ/kg)



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



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



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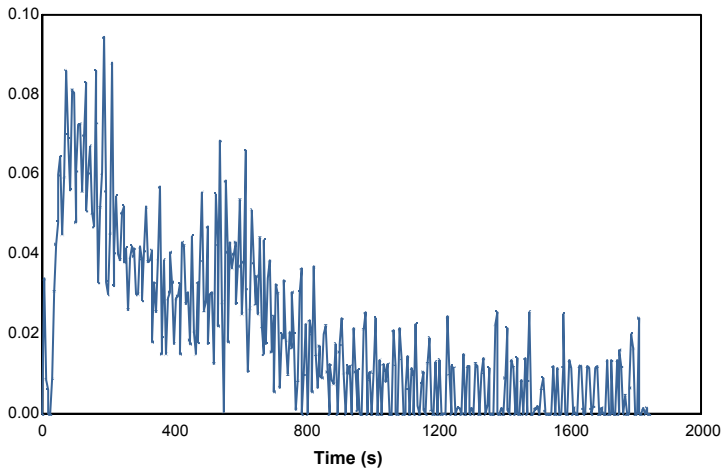
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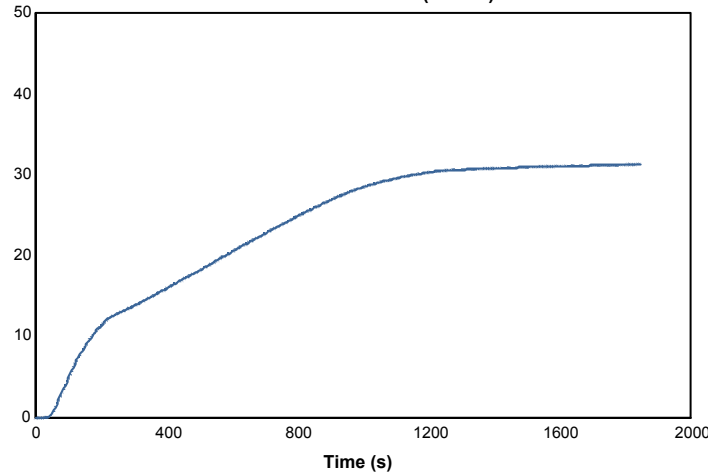
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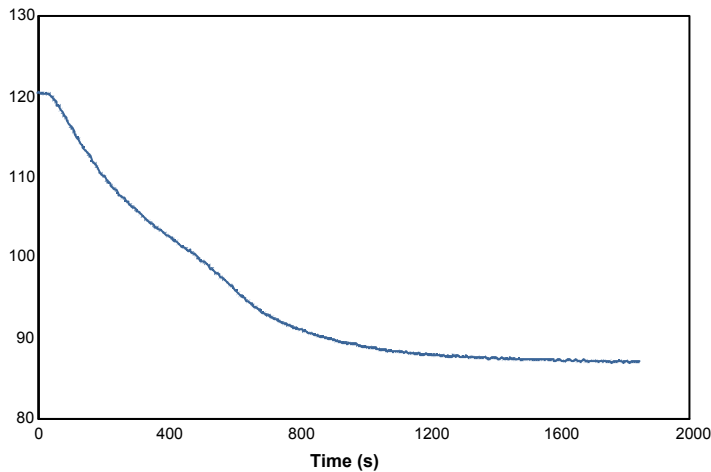
Mass loss rate (g/s)



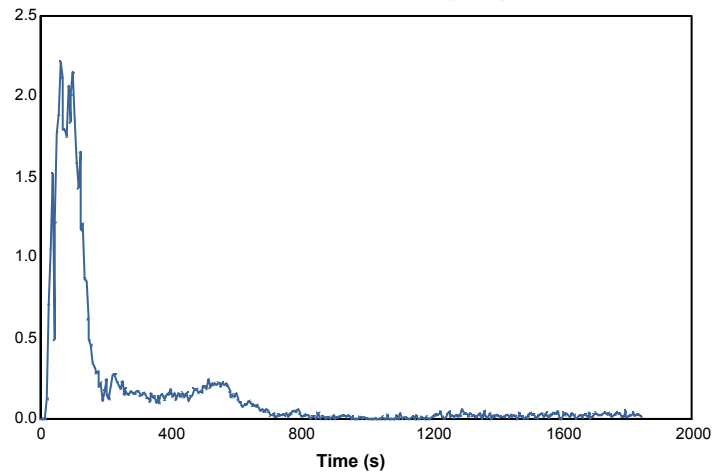
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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