

# 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

## TEST REPORT

**Client :** Next 13 Pty Ltd  
Unit 1, 67 Araluen Street  
Kedron QLD

**Test Number :** 23-001483  
**Issue Date :** 24/04/2023  
**Print Date :** 26/04/2023

**Sample Description** Clients Ref : "Trojan Professional Engineered Floor"  
Engineered timber flooring  
End Use : Flooring/Wall & Ceiling Lining  
Nominal Composition : Timber  
Nominal Mass per Unit Area/Density : 640g/m2  
Nominal Thickness : 14.2mm



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Fiona McDonald

APPROVED SIGNATORY



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

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

Date Tested 21-04-2023  
Operator AWTA Test Operator 9  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	45.5	47.5	47.2	46.7	kW/m <sup>2</sup>
Average Specific extinction area	22.5	28.0	22.2	24.2	m <sup>2</sup> /kg

(according to Specification C1.10 of the Building Code of Australia)

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	50	56	55	54	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	282.6	258.8	274.0	271.8	kW/m <sup>2</sup>
Average heat at 60 s	92.4	105.1	107.8	101.7	kW/m <sup>2</sup>
Average heat at 180 s	113.2	120.3	129.8	121.1	kW/m <sup>2</sup>
Average heat at 300 s	115.6	118.2	128.4	120.7	kW/m <sup>2</sup>
Total heat released	161.4	168.2	167.4	165.7	MJ/m <sup>2</sup>
Average effective heat of combustion	13.7	15.2	15.7	14.9	MJ/kg
Initial thickness	14.2	14.2	14.2	14.2	mm
Initial mass	98.9	92.1	88.1	93.0	g
Mass remaining	3.7	2.1	1.8	2.5	g
Mass percentage pyrolysed	96.3	97.8	97.9	97.3	%

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Mass loss	11.8	11.1	10.6	11.2	kg/m <sup>2</sup>
Average rate of mass loss	3.3	3.1	3.0	3.1	g/m <sup>2</sup> .s
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

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.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

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

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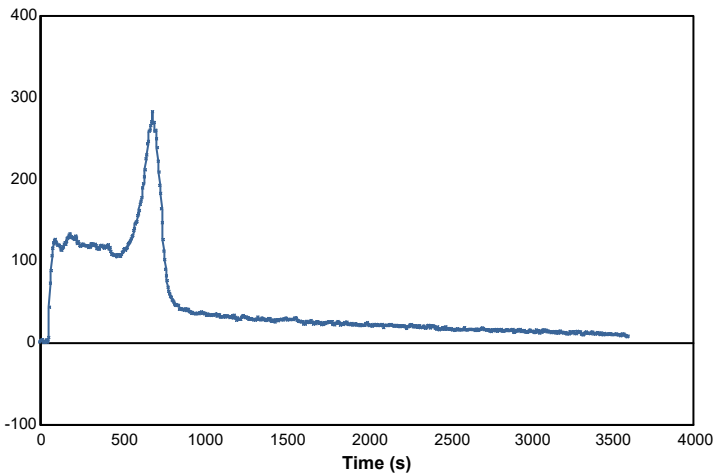
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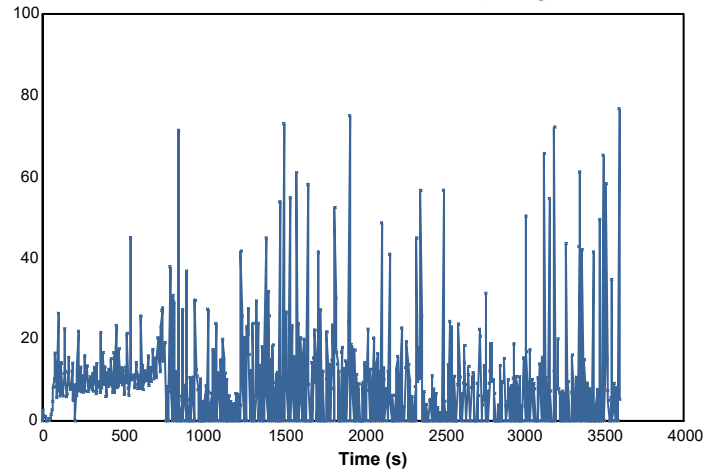
**Test Number :** 23-001483  
**Issue Date :** 24/04/2023  
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**Specimen :** 1

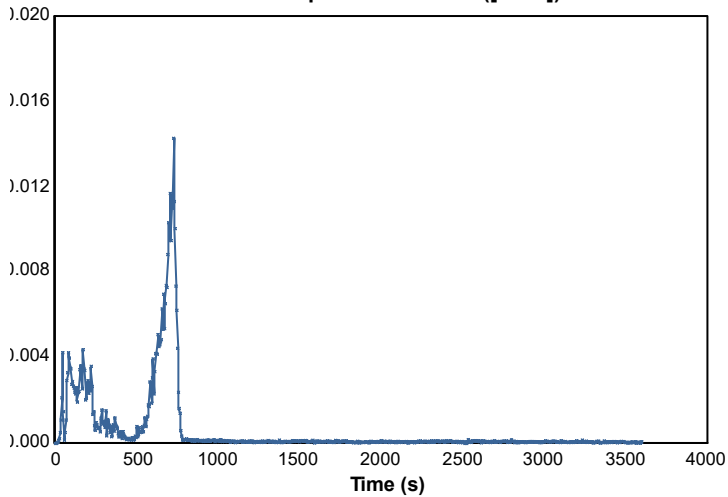
**Heat release rate (kW/m<sup>2</sup>)**



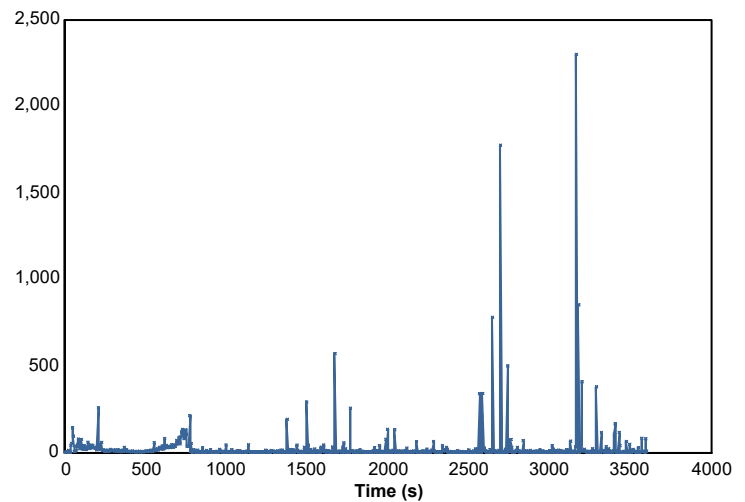
**Effective heat of combustion (MJ/kg)**



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



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



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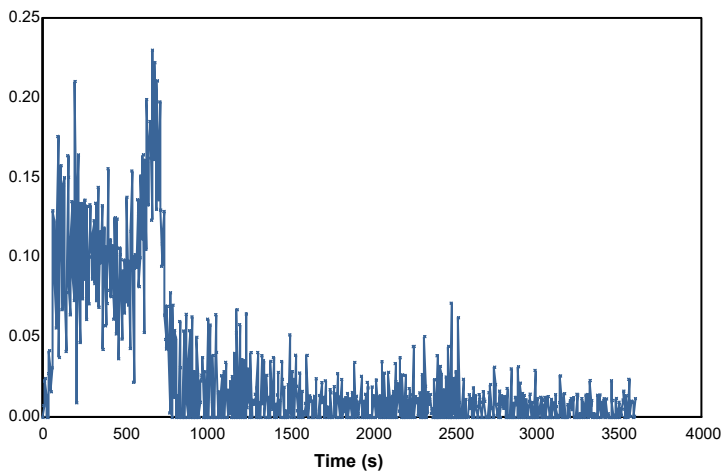
Phone (03) 9371 2400

## TEST REPORT

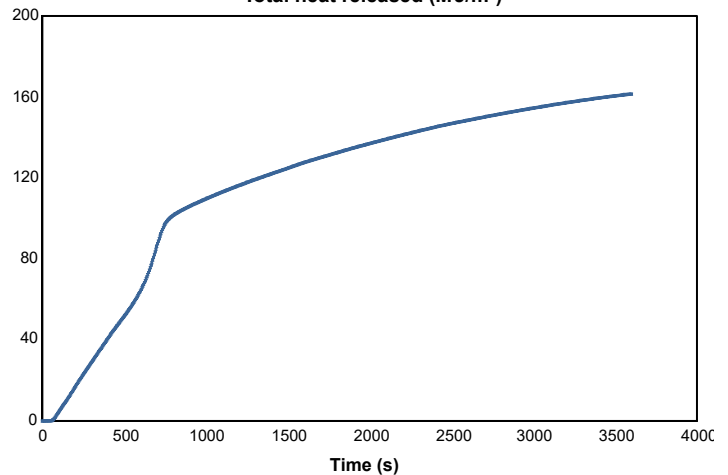
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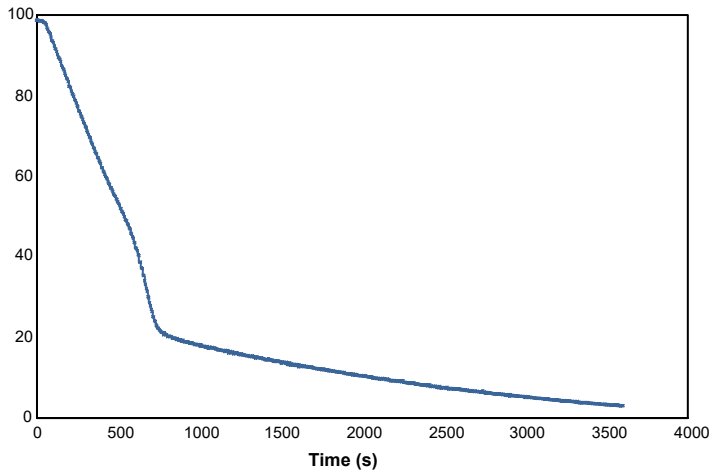
Mass loss rate (g/s)



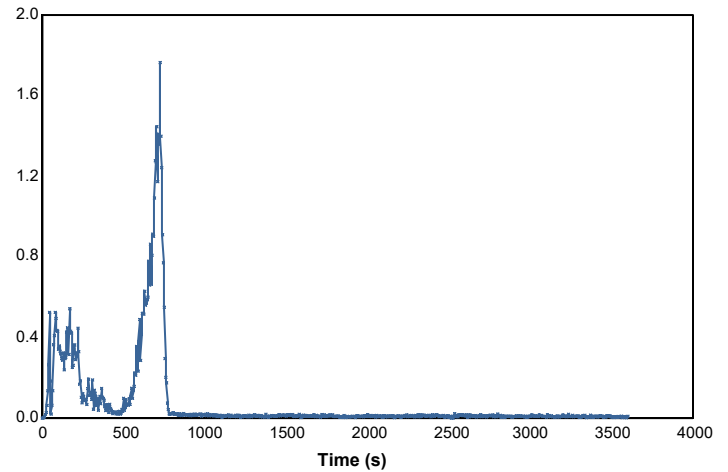
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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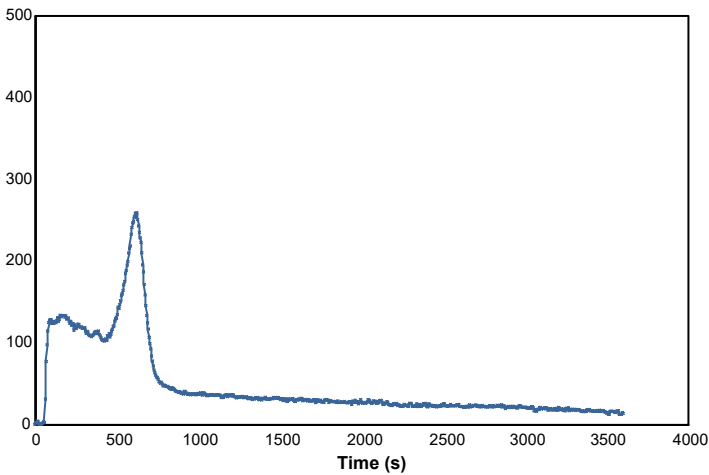
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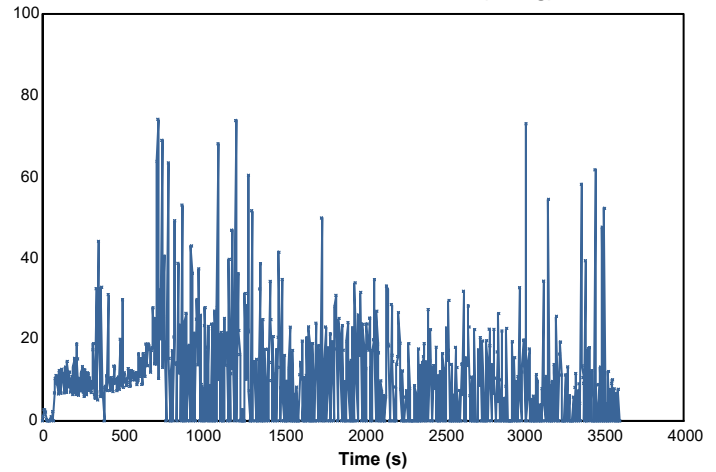
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**Specimen :** 2

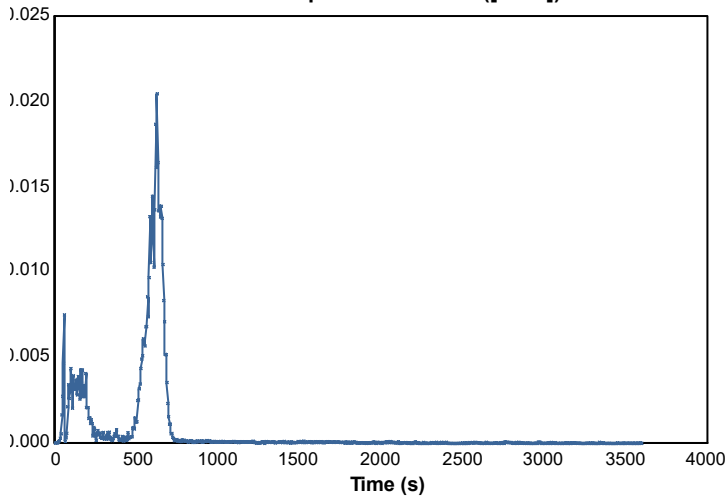
**Heat release rate (kW/m<sup>2</sup>)**



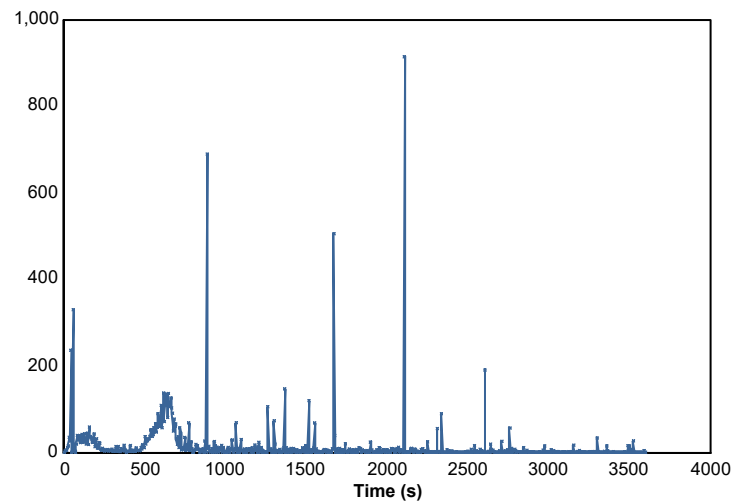
**Effective heat of combustion (MJ/kg)**



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



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



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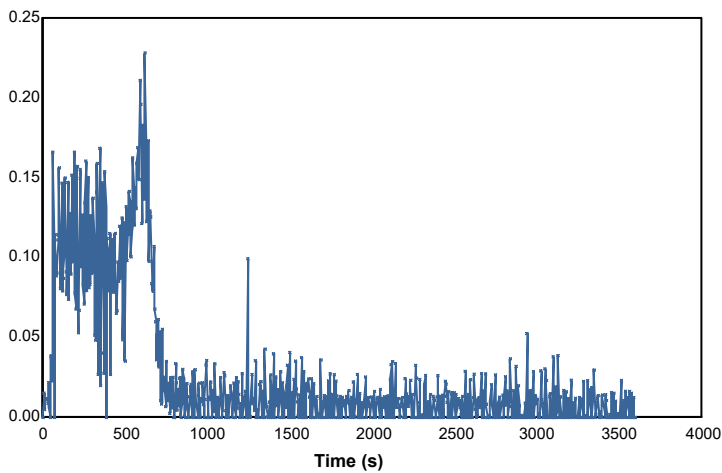
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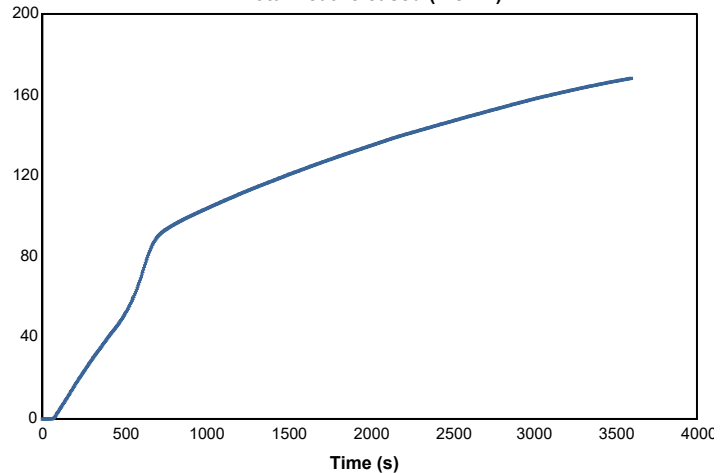
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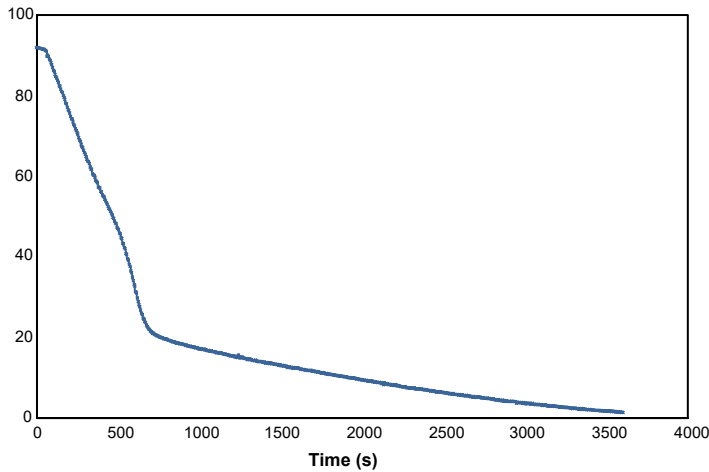
Mass loss rate (g/s)



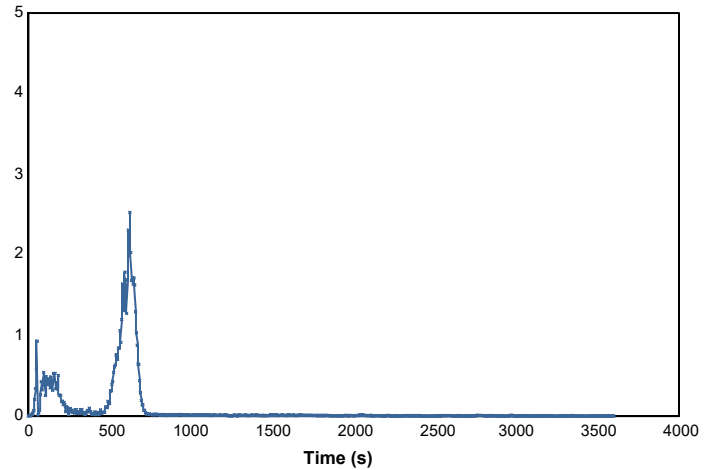
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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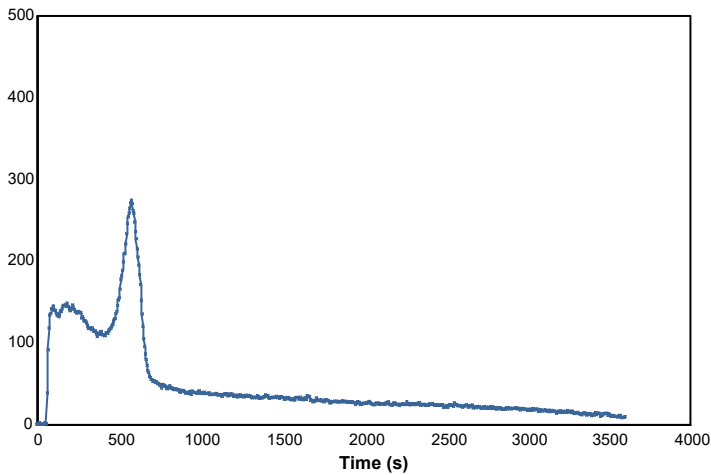
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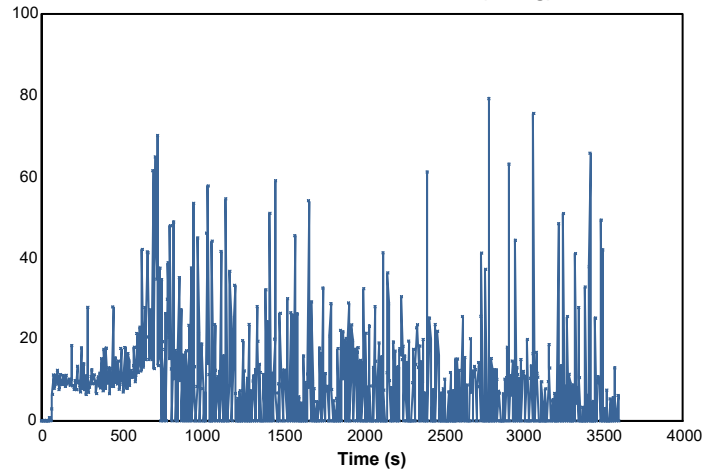
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**Specimen :** 3

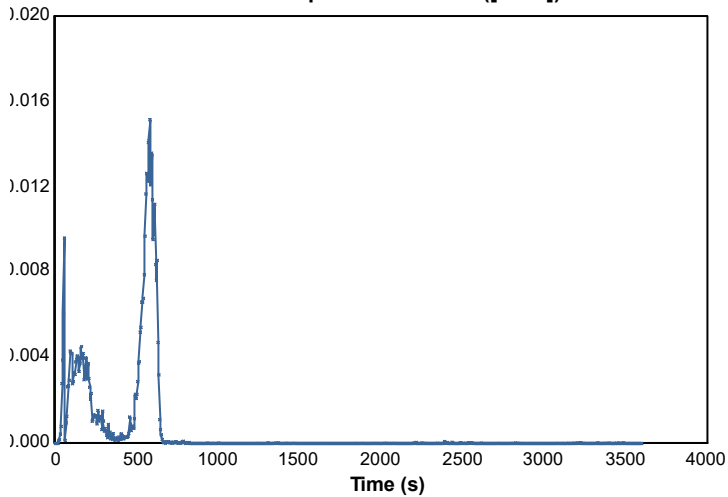
**Heat release rate (kW/m<sup>2</sup>)**



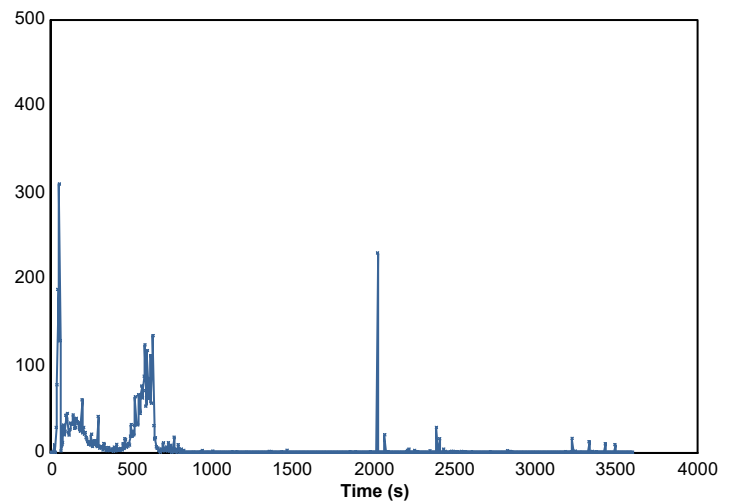
**Effective heat of combustion (MJ/kg)**



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



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



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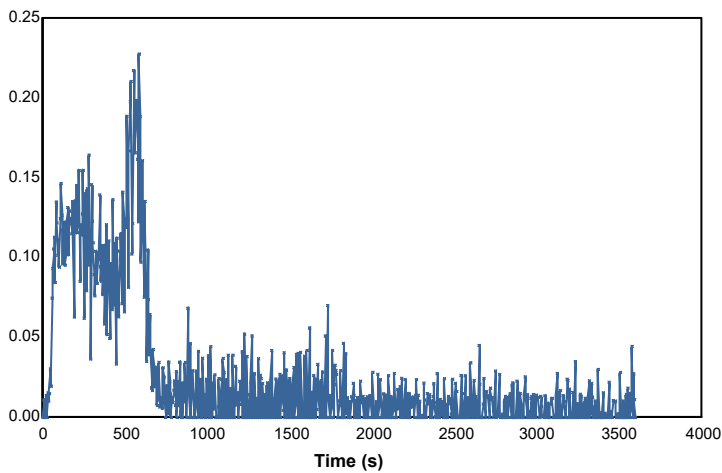
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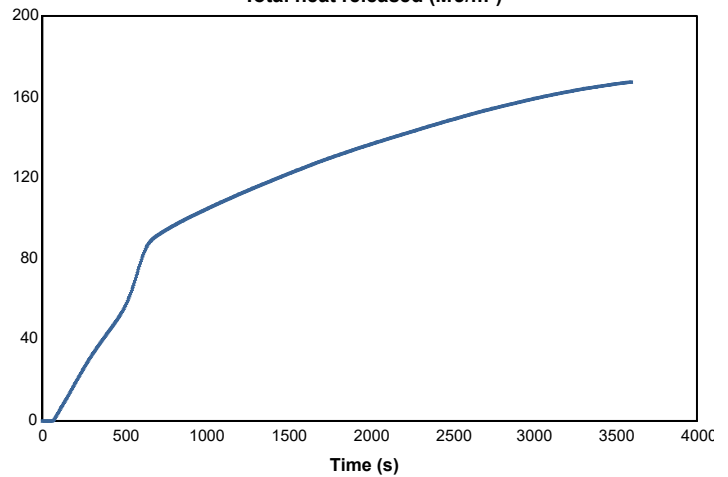
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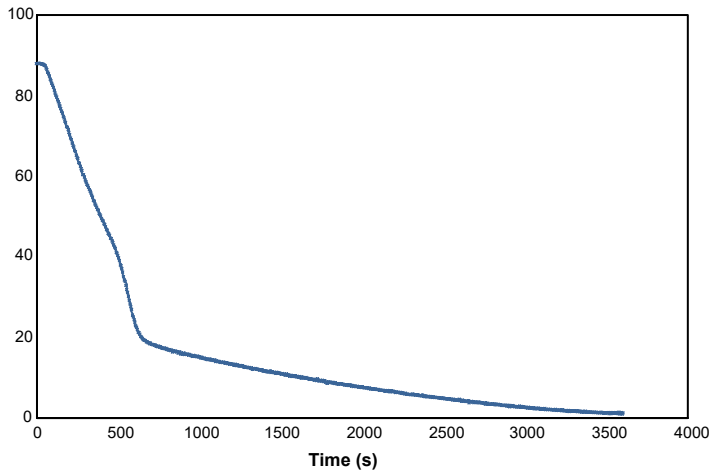
**Mass loss rate (g/s)**



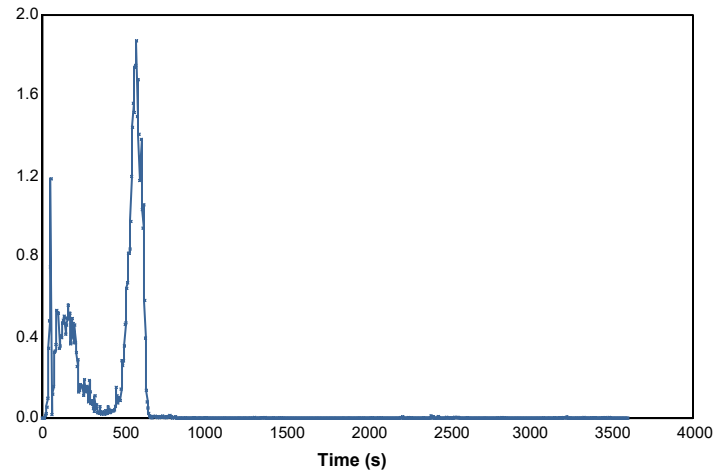
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s)/m²)**



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