

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 : Aus_Tim Pty Ltd
252 Gngara Road
Landsdale WA 6065

Test Number : 25-001858
Issue Date : 27/05/2025
Print Date : 28/05/2025

Sample Description

Clients Ref : "Heimu"
Rigid Panel
Colour : Brown
End Use : Ceiling & Wall Linings
Nominal Composition : Solid timber thermally modified
Nominal Mass per Unit Area/Density : 800kg/m3
Nominal Thickness : 12mm



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Chris Campbell
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 27-05-2025
Operator AWTA Test Operator 21
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	36.2	39.4	45.7	40.4	kW/m ²
Average Specific extinction area	26.2	6.3	24.5	19.0	m ² /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	60	44	40	48	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	164.6	187.4	181.2	177.7	kW/m ²
Average heat at 60 s	117.3	121.5	113.0	117.3	kW/m ²
Average heat at 180 s	105.1	112.4	106.3	107.9	kW/m ²
Average heat at 300 s	101.4	109.6	103.7	104.9	kW/m ²
Total heat released	128.3	140.3	162.6	143.7	MJ/m ²
Average effective heat of combustion	14.2	15.1	17.4	15.6	MJ/kg
Initial thickness	12	12	12	12.0	mm
Initial mass	85.6	86.7	83.8	85.4	g
Mass remaining	12.2	11.5	8.1	10.6	g
Mass percentage pyrolysed	85.7	86.8	90.3	87.6	%

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Mass loss	9.1	9.3	9.3	9.2	kg/m ²
Average rate of mass loss	2.6	2.6	2.6	2.6	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

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

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.

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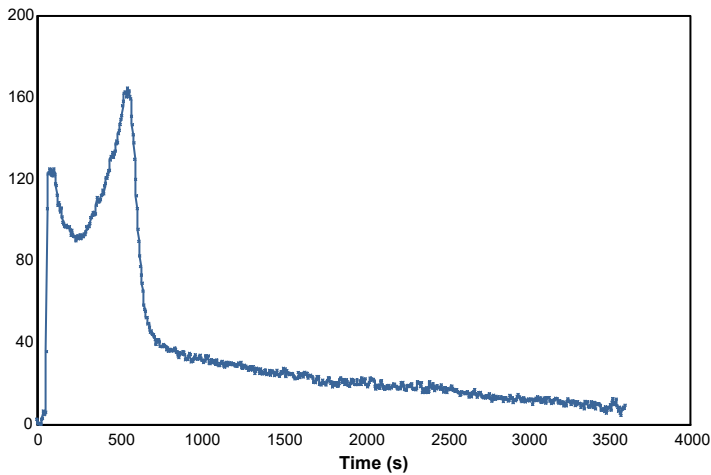
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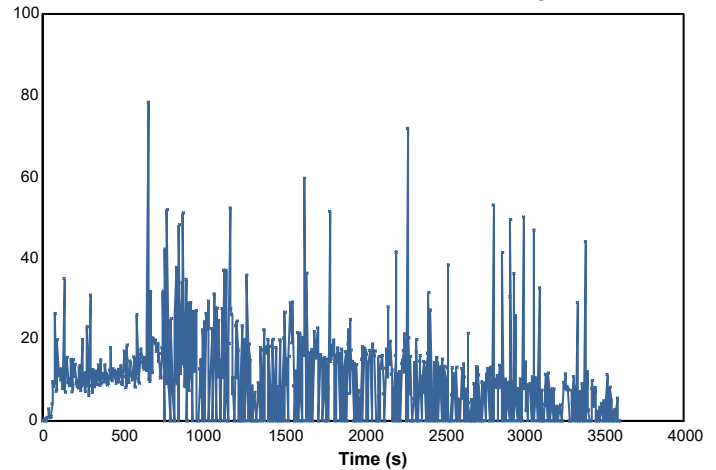
Test Number : 25-001858
Issue Date : 27/05/2025
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Specimen : 1

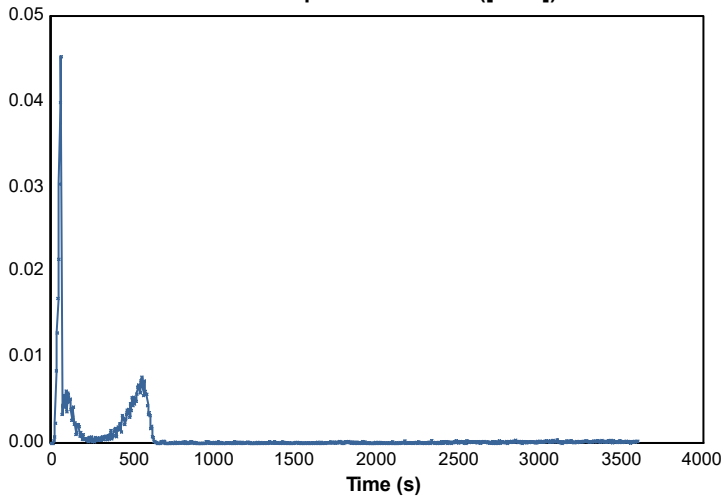
Heat release rate (kW/m²)



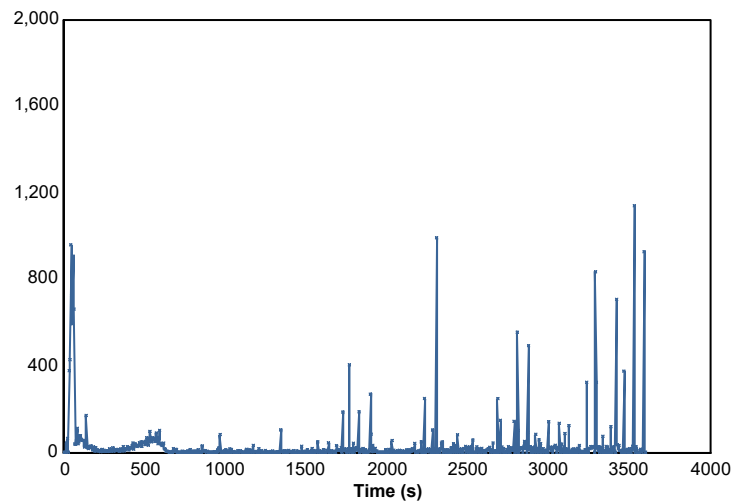
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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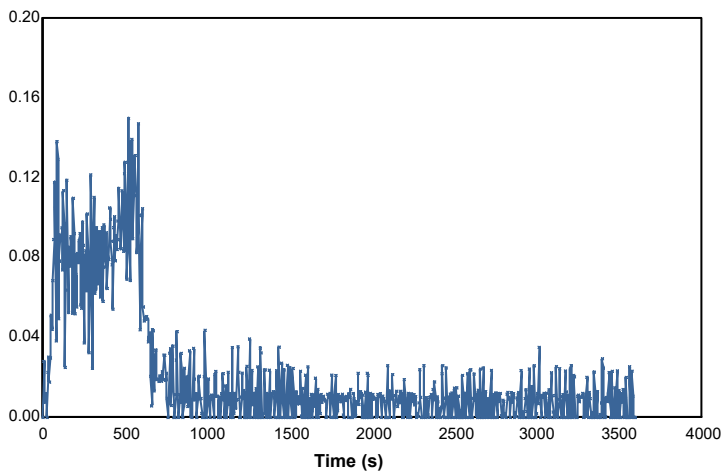
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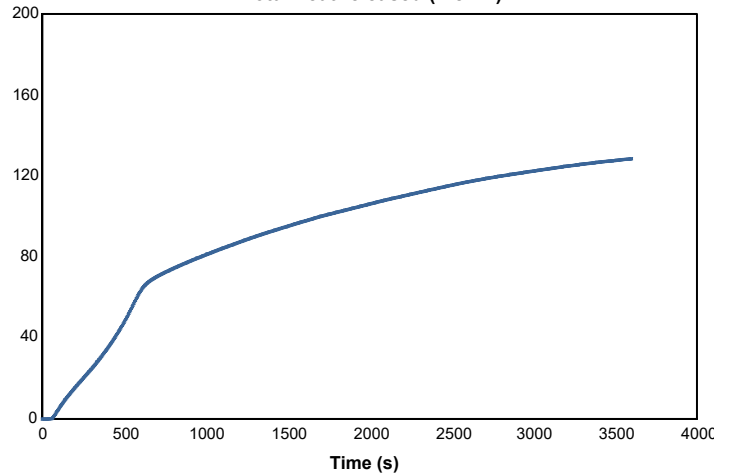
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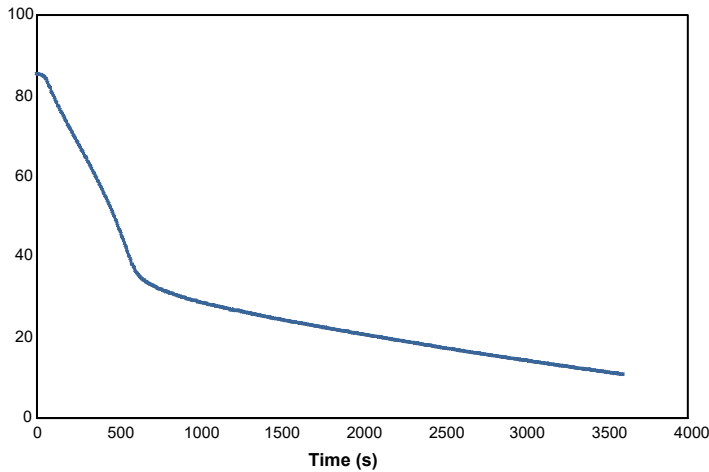
Mass loss rate (g/s)



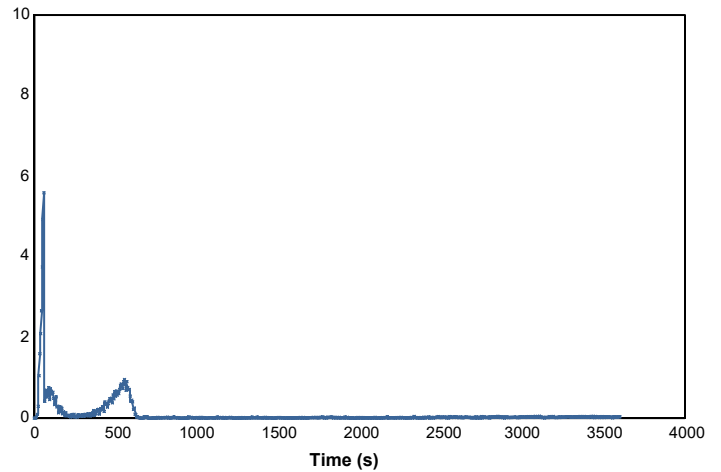
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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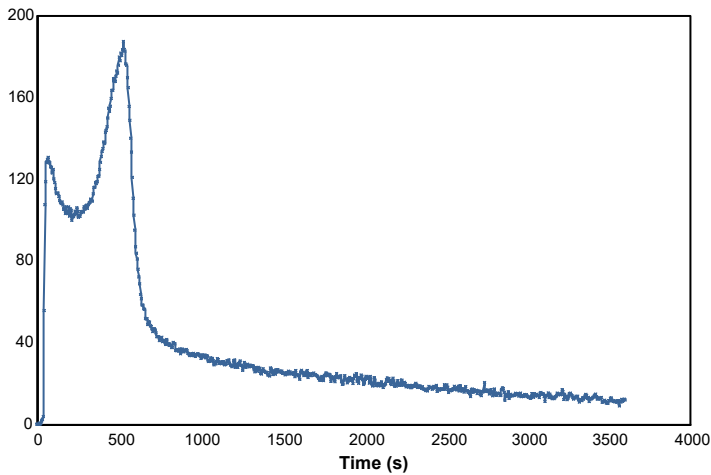
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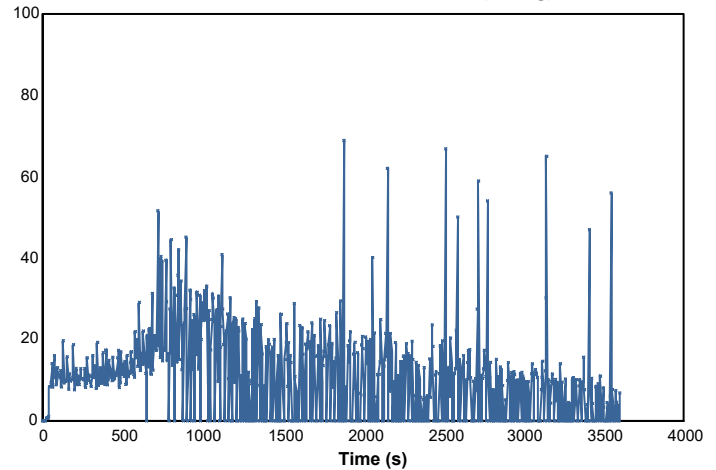
Test Number : 25-001858
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Specimen : 2

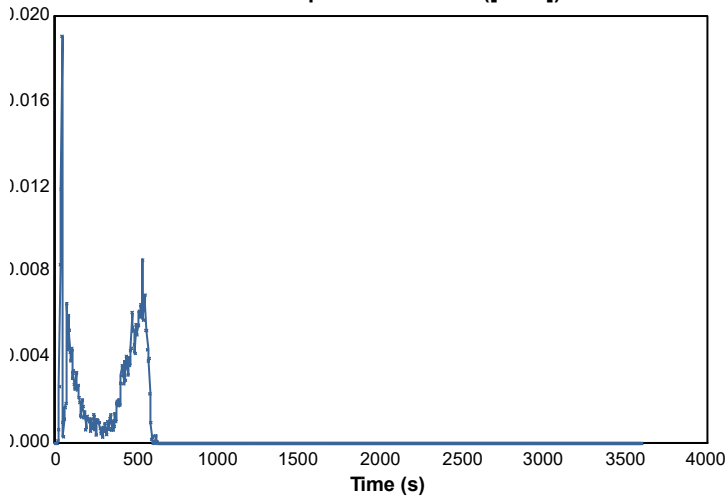
Heat release rate (kW/m²)



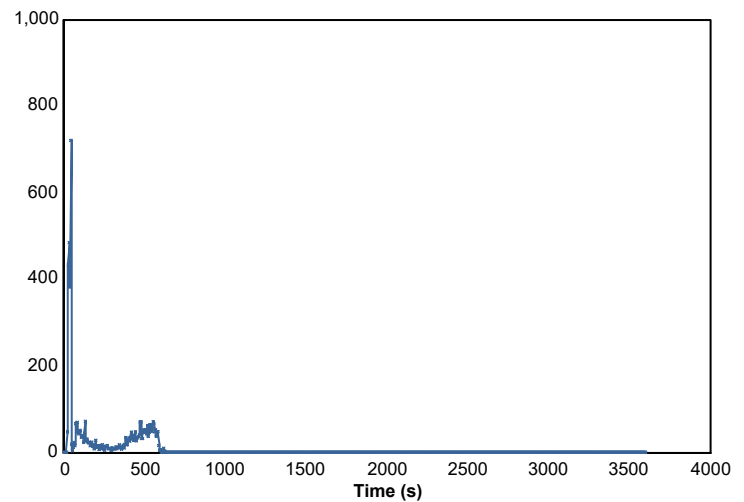
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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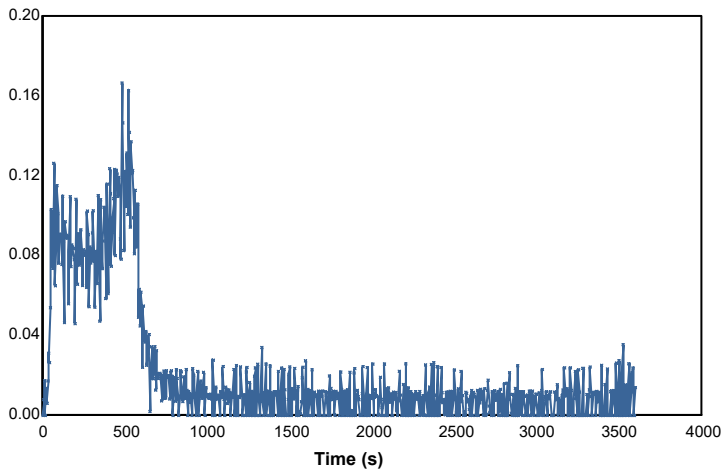
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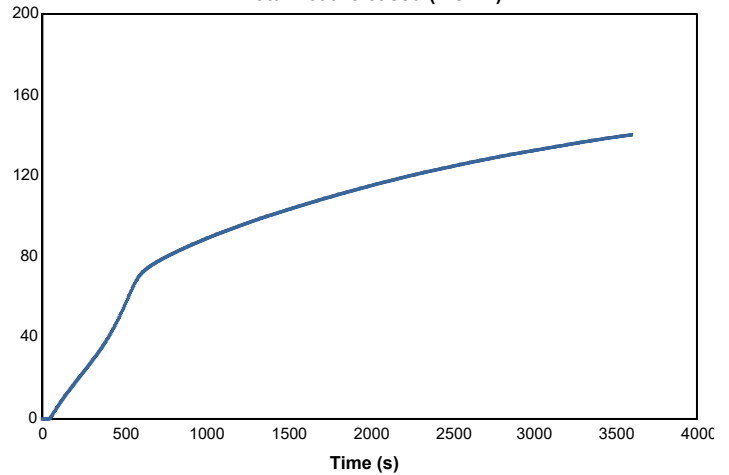
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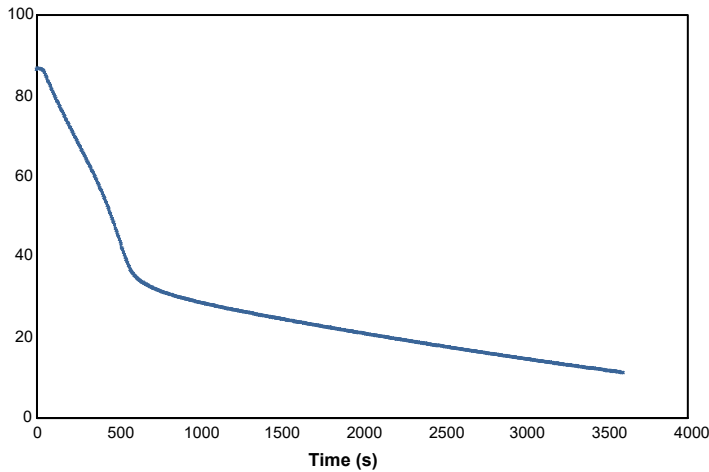
Mass loss rate (g/s)



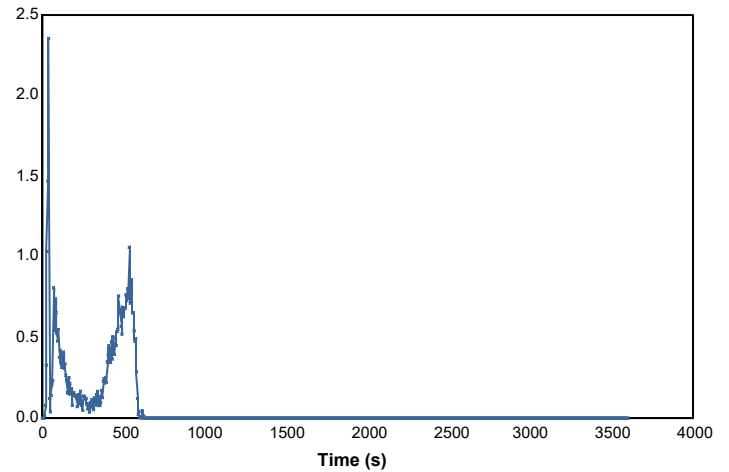
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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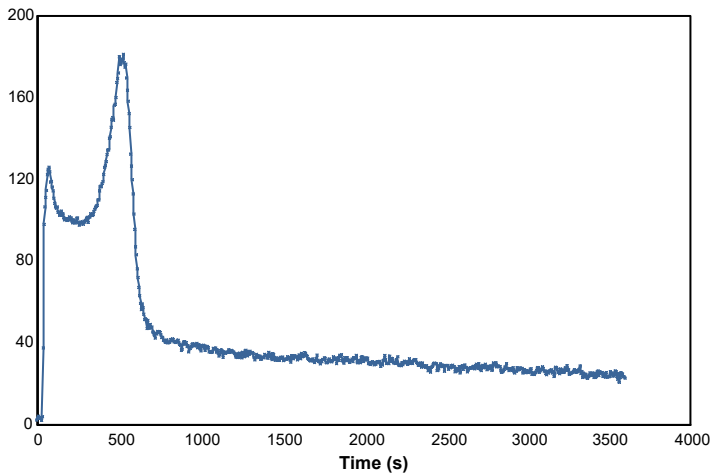
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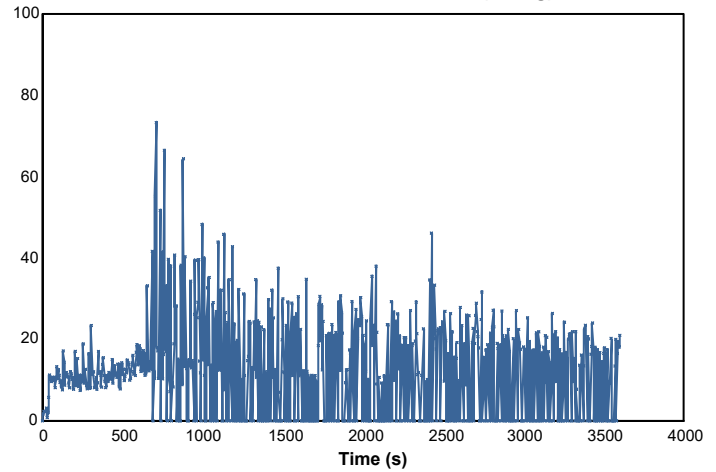
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Specimen : 3

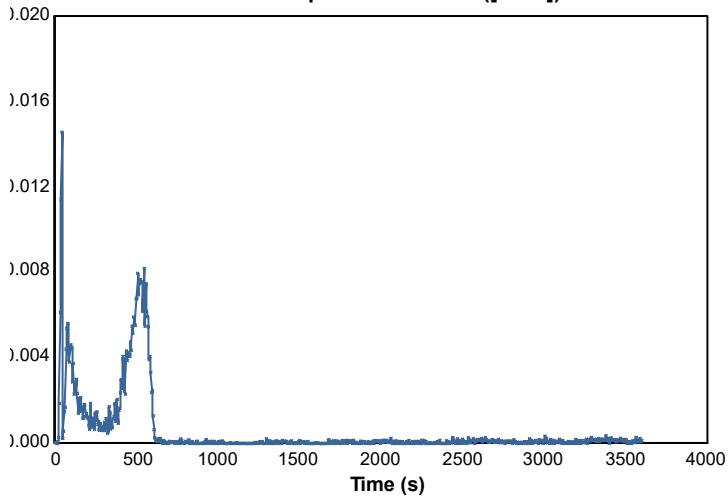
Heat release rate (kW/m²)



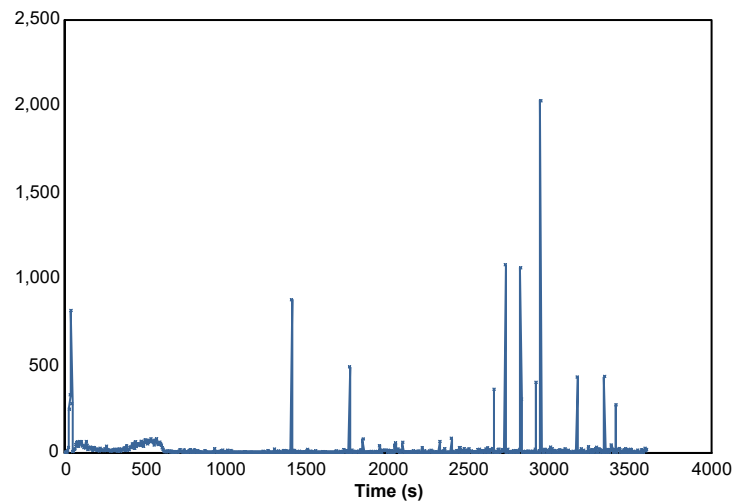
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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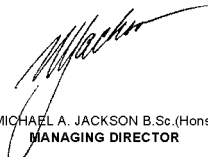
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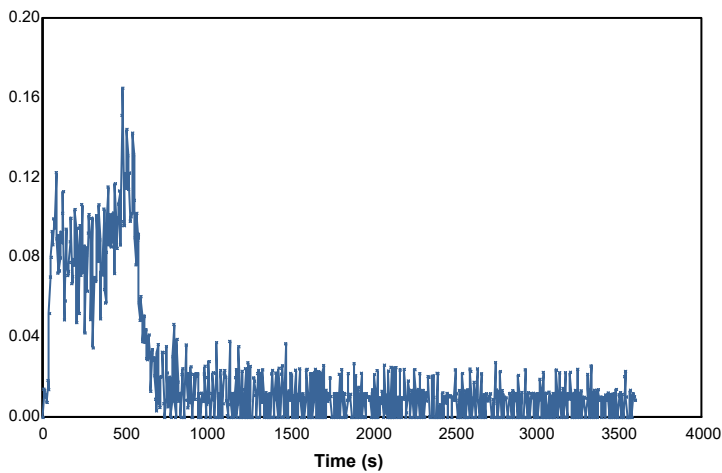
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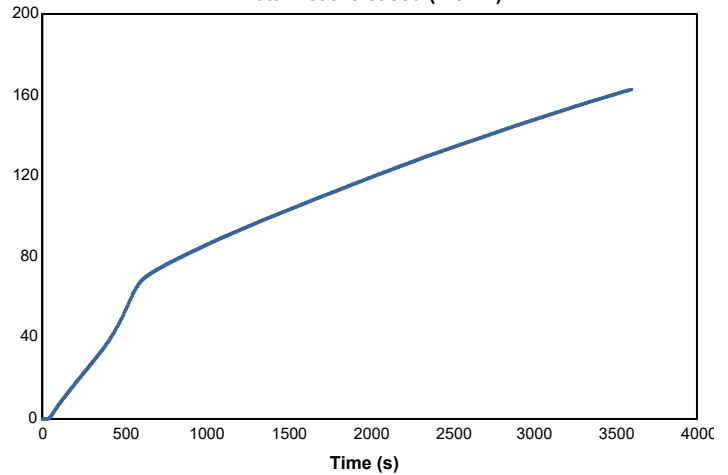
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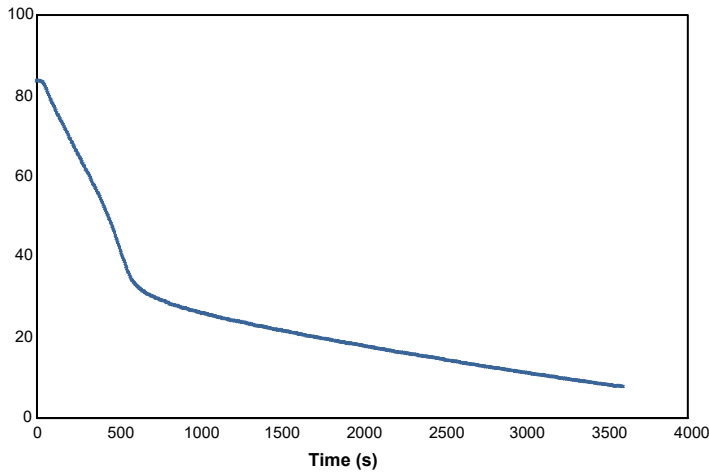
Mass loss rate (g/s)



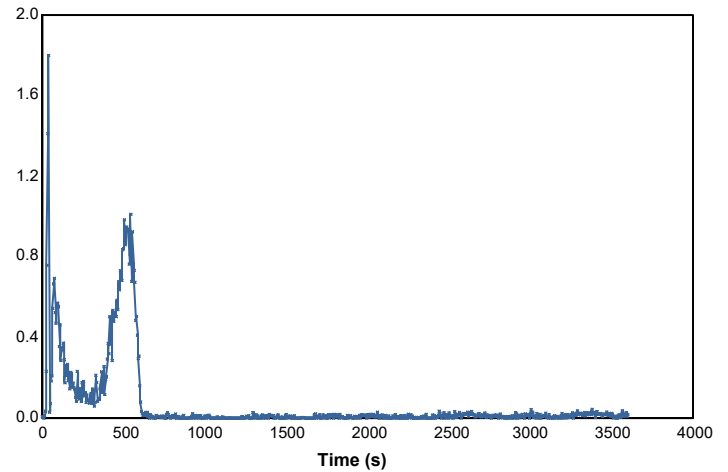
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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