

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 : Australian Sustainable Hardwoods
4 Weir Rd
Heyfield VIC 3858

Test Number : 23-000967
Issue Date : 20/03/2023
Print Date : 24/03/2023

Sample Description

Clients Ref : "American Oak by Ash - Quercus Rubra"
Timber panel
Colour : Natural
End Use : Wall & Ceiling
Nominal Composition : Kiln dried solid timber
Nominal Mass per Unit Area/Density : 730kg/m3
Nominal Thickness : 12mm



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Accreditation Numbers: 983, 985, and 1356

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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 17-03-2023
Operator AWTA Test Operator 9
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	46.1	52.6	58.1	52.3	kW/m ²
Average Specific extinction area	0.0	32.9	28.3	20.4	m ² /kg

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

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	32	41	31	35	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	218.2	247.9	239.3	235.1	kW/m ²
Average heat at 60 s	140.5	138.1	135.9	138.2	kW/m ²
Average heat at 180 s	125.1	133.4	122.8	127.1	kW/m ²
Average heat at 300 s	119.4	129.6	120.5	123.2	kW/m ²
Total heat released	164.5	186.9	207.2	186.2	MJ/m ²
Average effective heat of combustion	16.5	19.3	20.3	18.7	MJ/kg
Initial thickness	12	12	12	12.0	mm
Initial mass	82	79.3	83.4	81.6	g
Mass remaining	1.0	0.4	0.7	0.7	g
Mass percentage pyrolysed	98.8	99.5	99.2	99.2	%

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Mass loss	10.0	9.7	10.2	10.0	kg/m ²
Average rate of mass loss	2.8	2.7	2.9	2.8	g/m ² .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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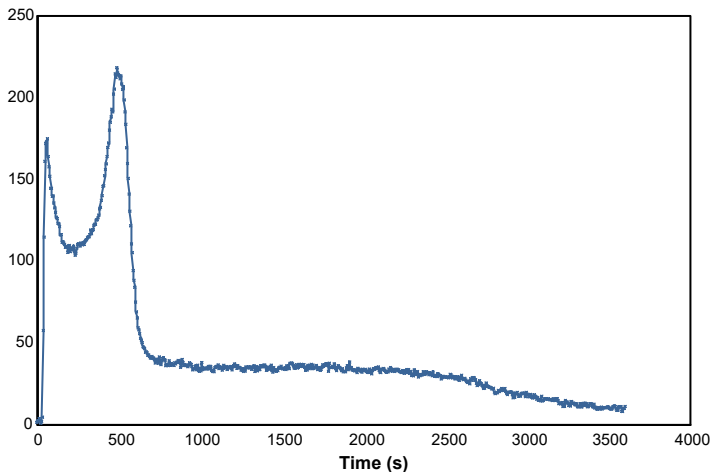
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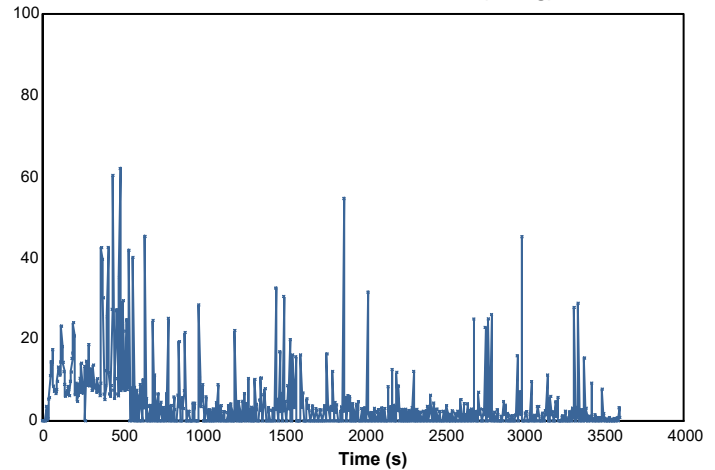
Test Number : 23-000967
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Specimen : 1

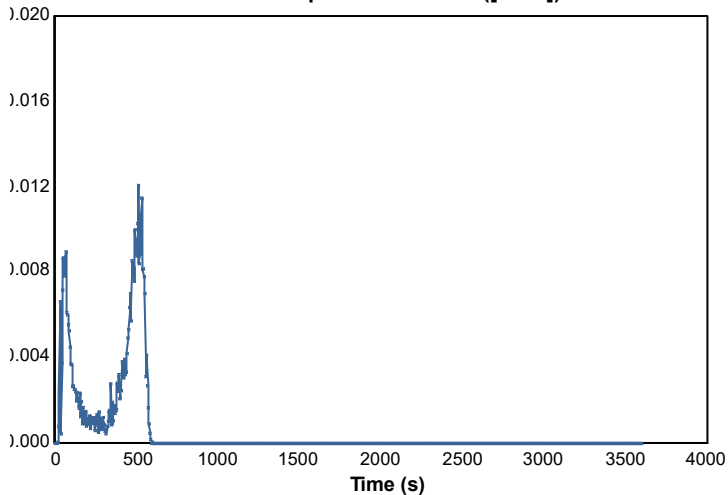
Heat release rate (kW/m²)



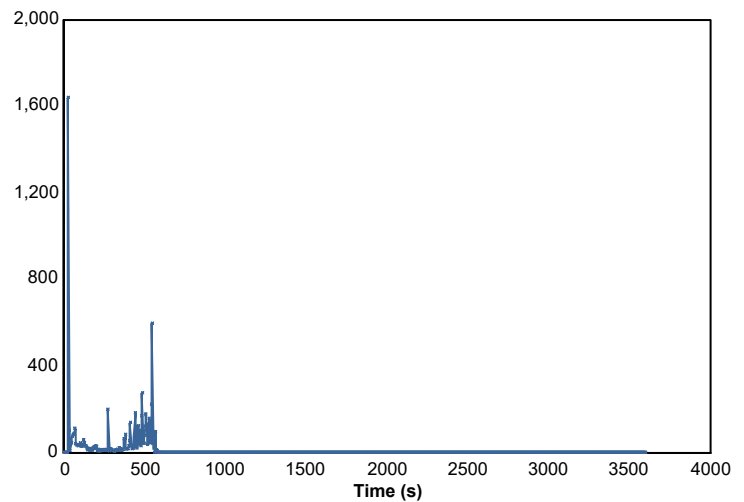
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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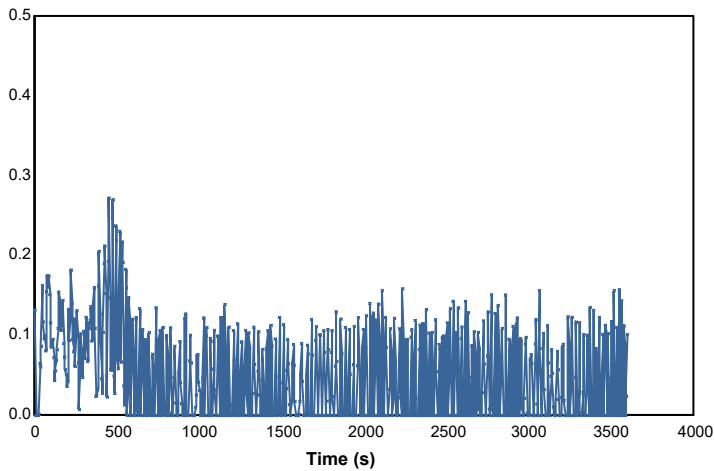
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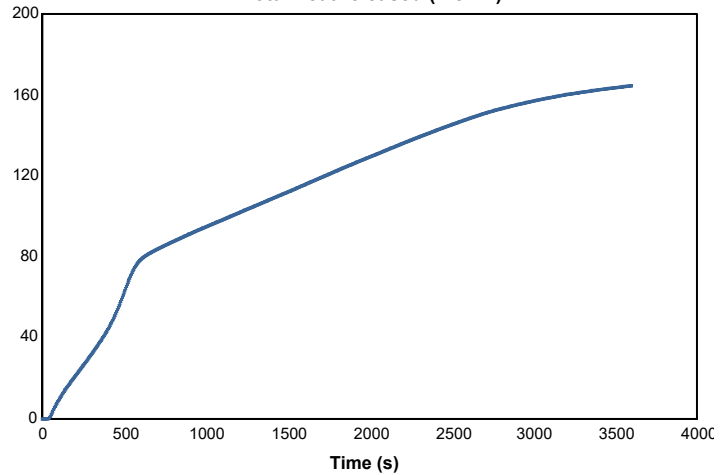
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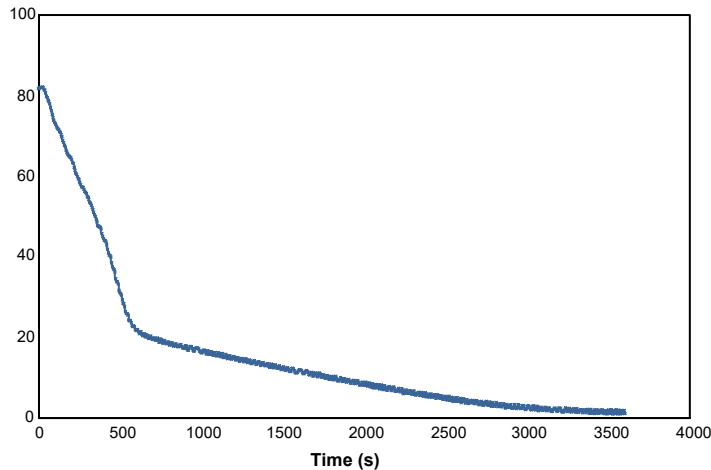
Mass loss rate (g/s)



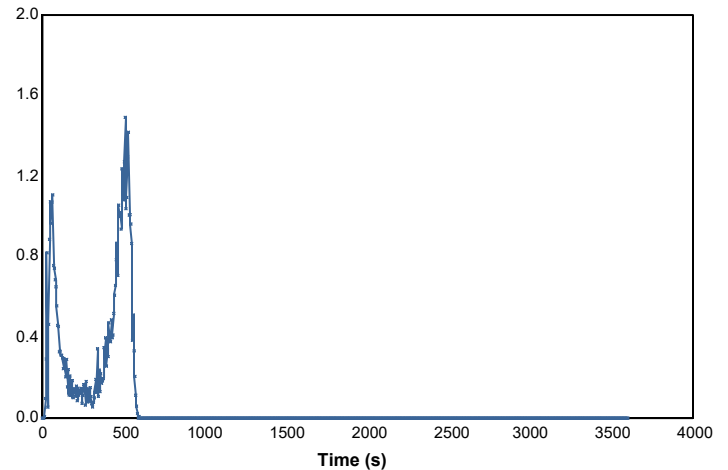
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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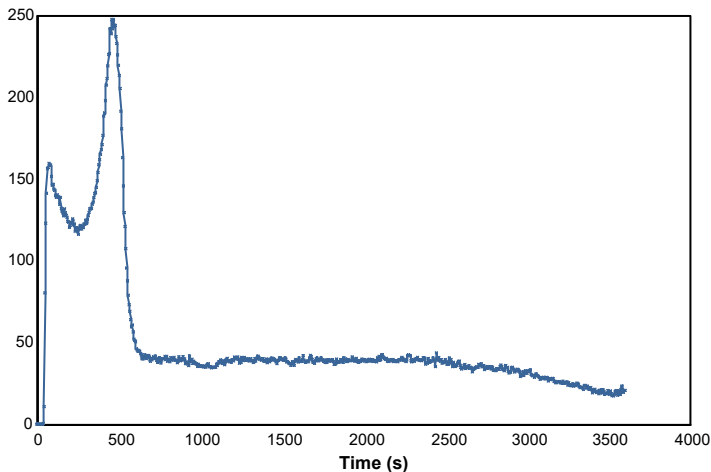
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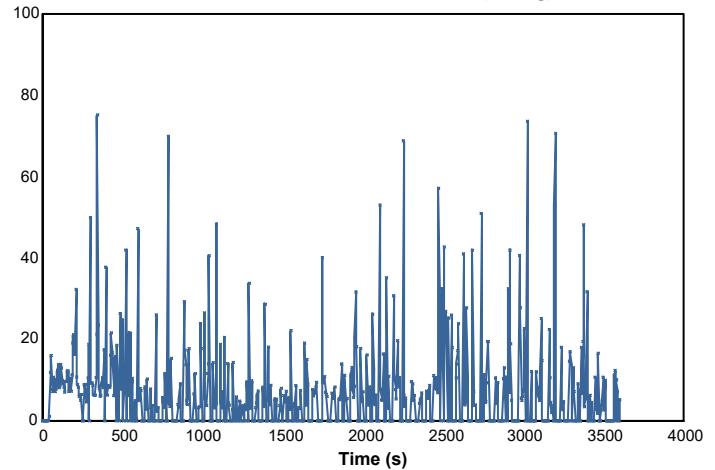
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Specimen : 2

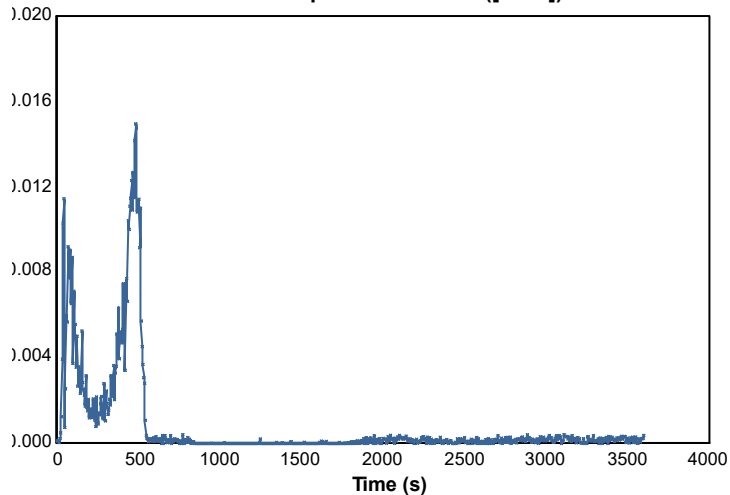
Heat release rate (kW/m²)



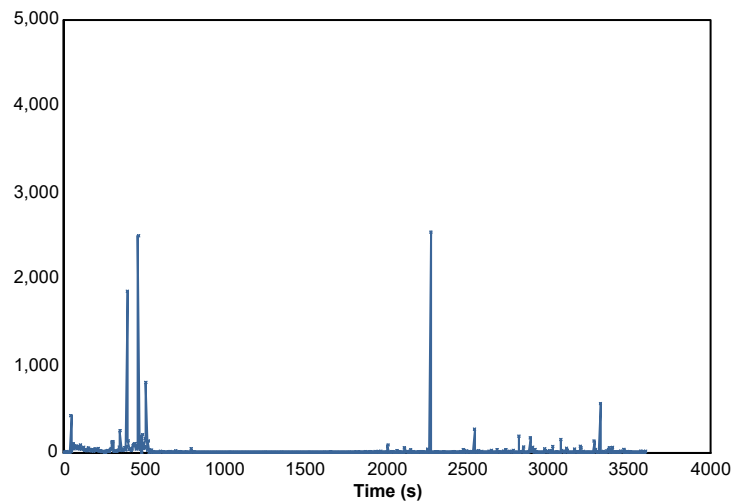
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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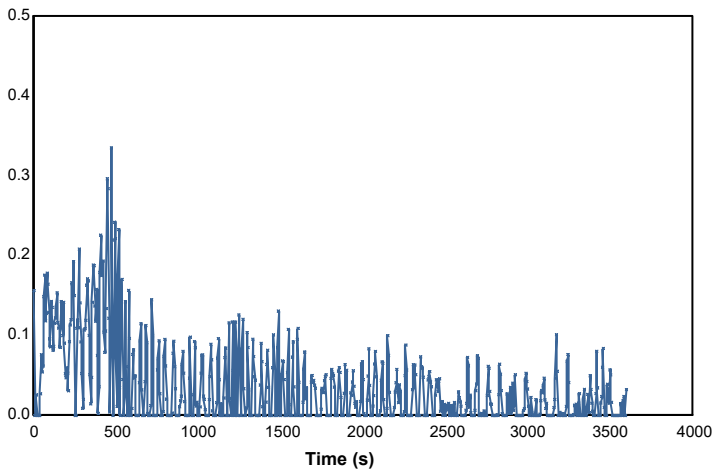
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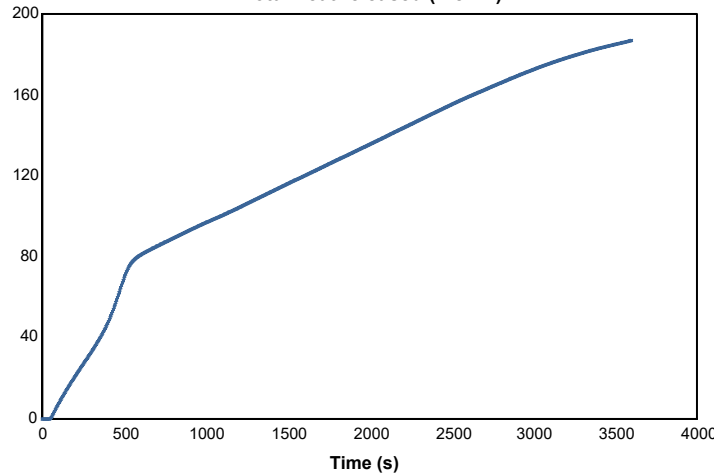
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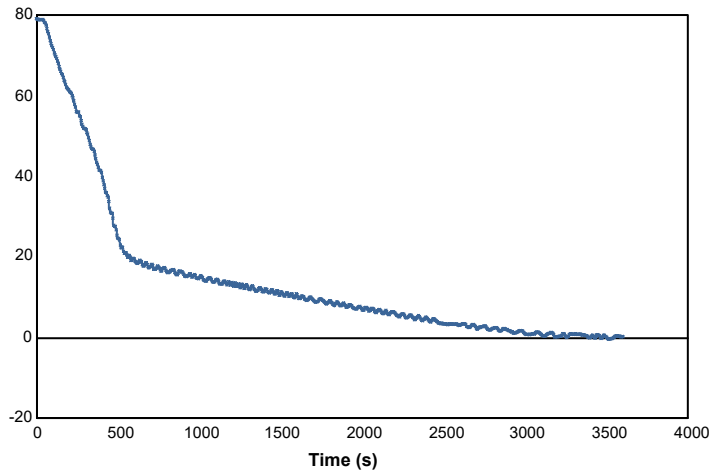
Mass loss rate (g/s)



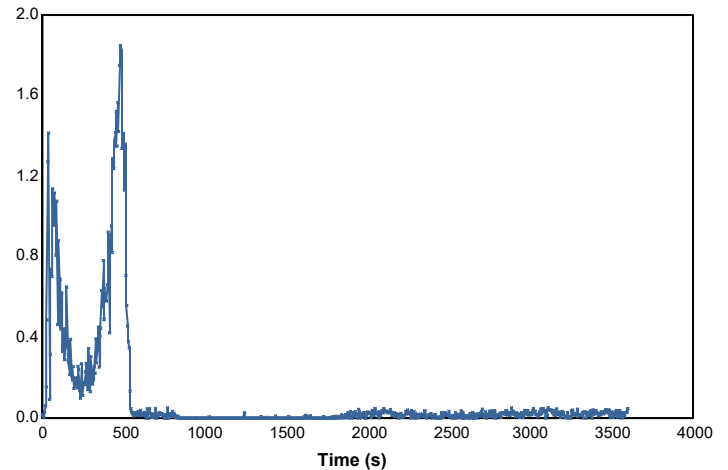
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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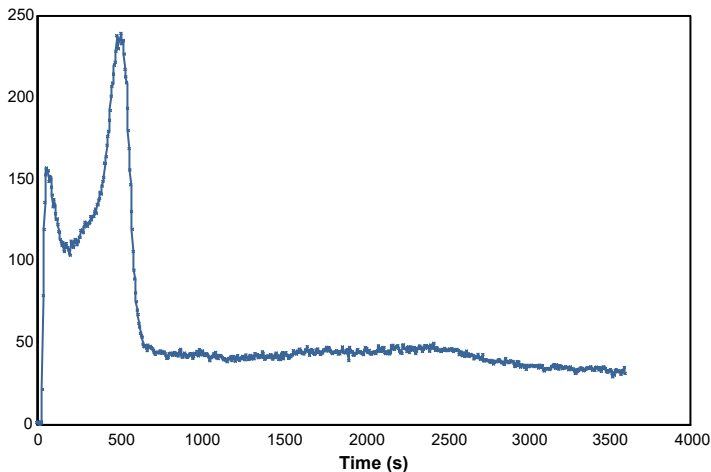
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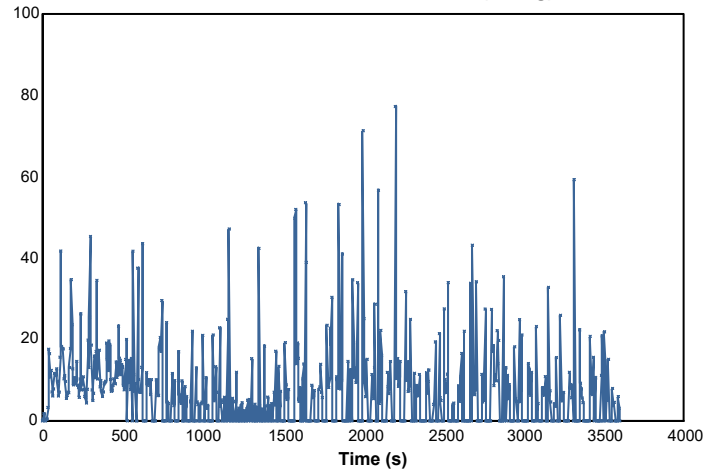
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Specimen : 3

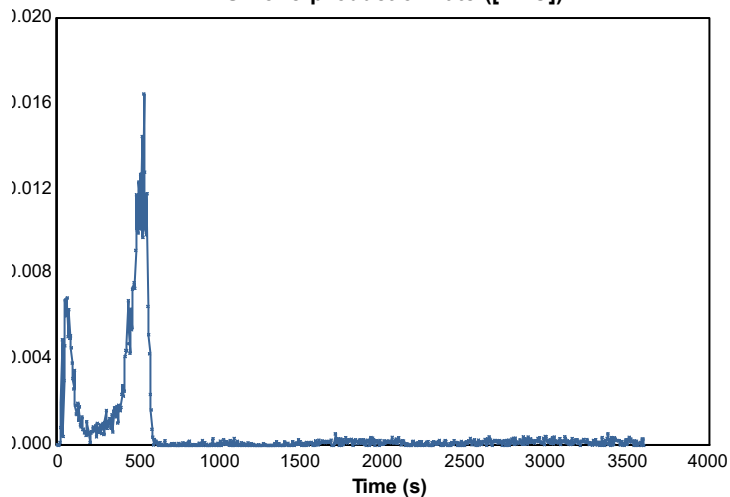
Heat release rate (kW/m²)



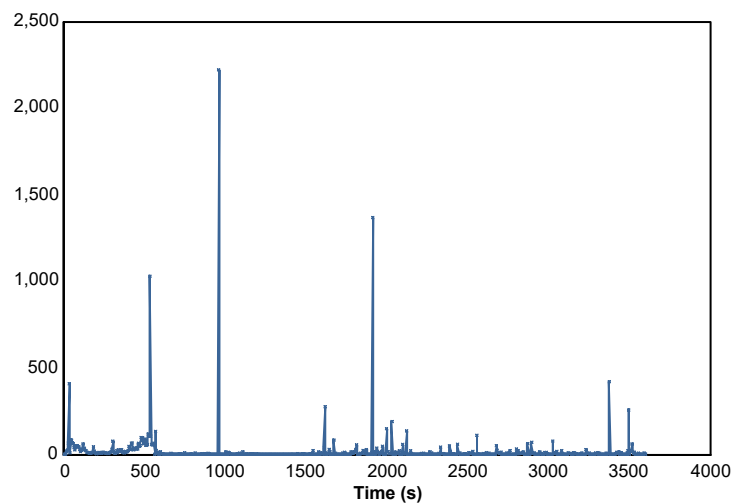
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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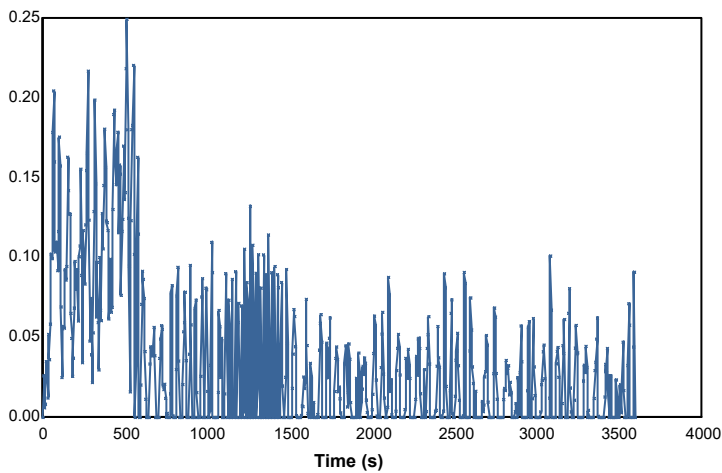
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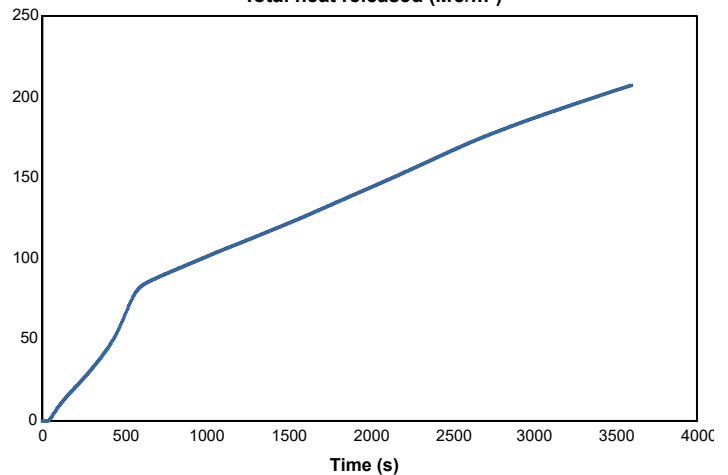
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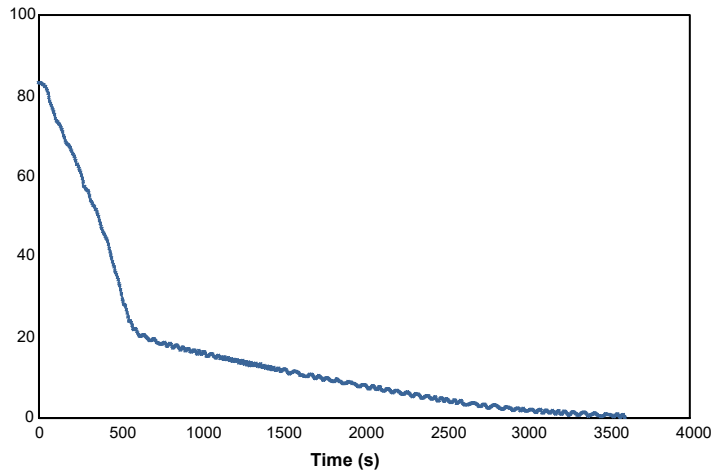
Mass loss rate (g/s)



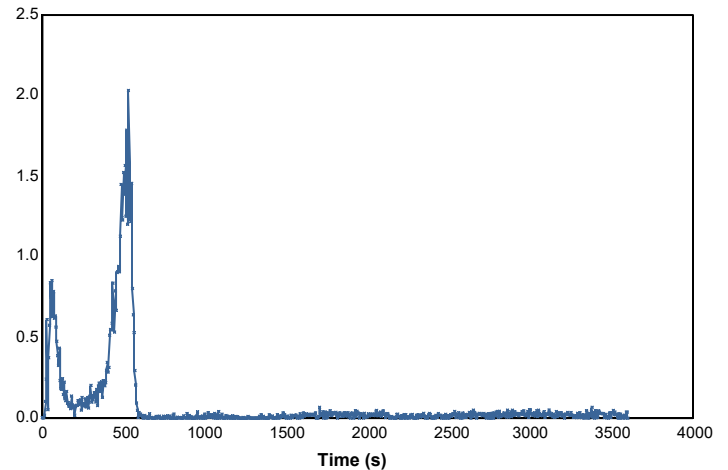
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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