

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

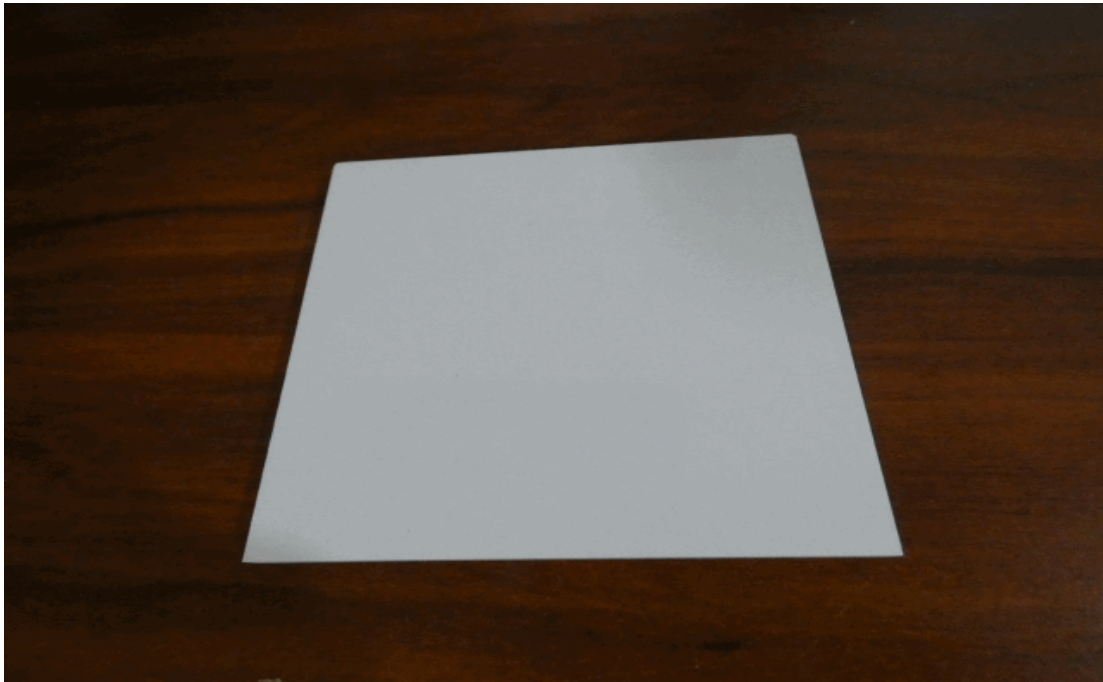
TEST REPORT

Client : AJ Bates
205 Station Road
Penrose Auckland 1061 New Zealand
New Zealand

Test Number : 23-003999
Issue Date : 18/10/2023
Print Date : 23/10/2023

Sample Description

Clients Ref : "Seratone"
Rigid Panel
Colour : White
End Use : Internal Wall Lining/Cladding
Nominal Composition : Mineral polymer composite coated with high gloss UV paint
Nominal Mass per Unit Area/Density : 1855kg/m3
Nominal Thickness : 4.5mm



196350

67031

Page 1 of 9

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Chris Campbell
APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)
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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 18-10-2023
Operator AWTA Test Operator 9
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	41.6	37.4	37.3	38.8	kW/m ²
Average Specific extinction area	80.8	90.1	89.9	86.9	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	69	72	75	72	sec
Test duration	1869	1872	1875	1872	sec
Peak heat release after ignition	82.3	77.1	88.0	82.5	kW/m ²
Average heat at 180 s	74.6	71.0	65.1	70.2	kW/m ²
Average heat at 300 s	74.7	69.6	68.4	70.9	kW/m ²
Total heat released	74.8	67.3	67.1	69.7	MJ/m ²
Average effective heat of combustion	13.8	12.6	12.6	13.0	MJ/kg
Initial thickness	10.5	10.5	10.5	10.5	mm
Initial mass	171.4	172	172.5	172.0	g
Mass at sustained flaming	171.3	171.9	172.2	171.8	g
Mass remaining	127.6	128.6	129.3	128.5	g
Mass loss	5411.6	5363.8	5339.0	5371.4	g/m ²
Average rate of mass loss	3.0	3.0	3.0	3.0	g/m ² .s

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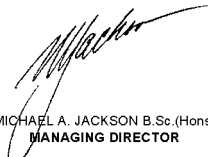


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Total smoke Production (Non Flaming phase)	6.2	7.0	12.7	8.6	m ² /m ²
Total smoke Production (Flaming phase)	592.8	535.1	482.0	536.6	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	599.0	542.1	494.7	545.3	m ² /m ²
C-Factor (Calibration Constant)	0.038775	0.038775	0.038775	-	
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.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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

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

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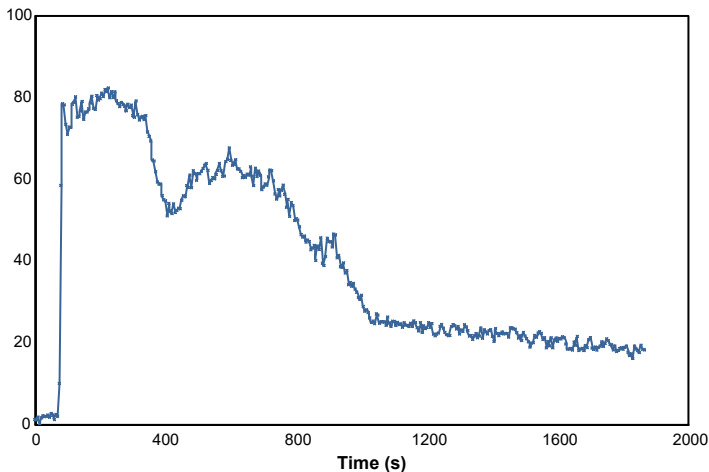
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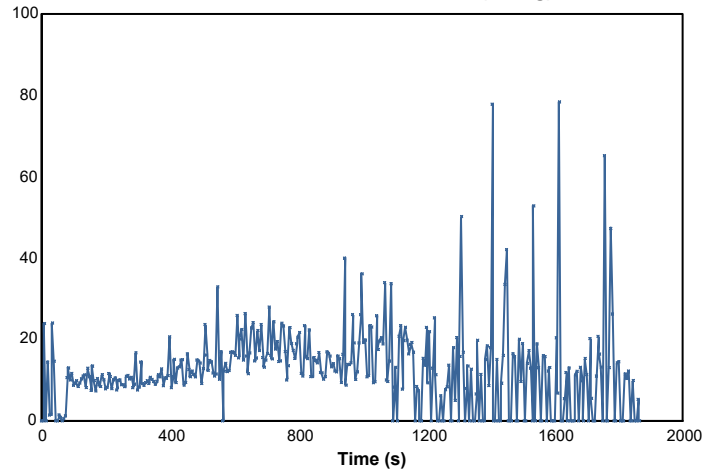
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Specimen : 1

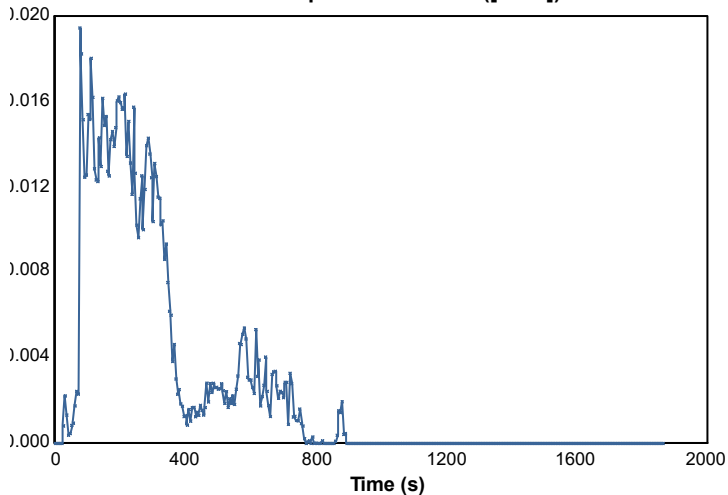
Heat release rate (kW/m²)



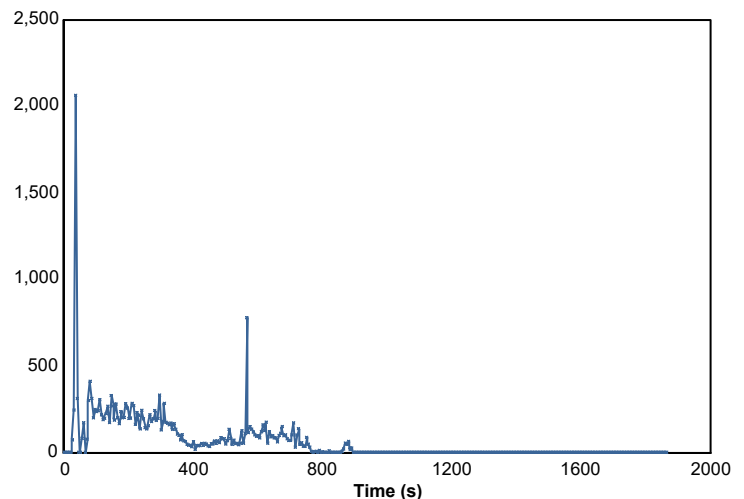
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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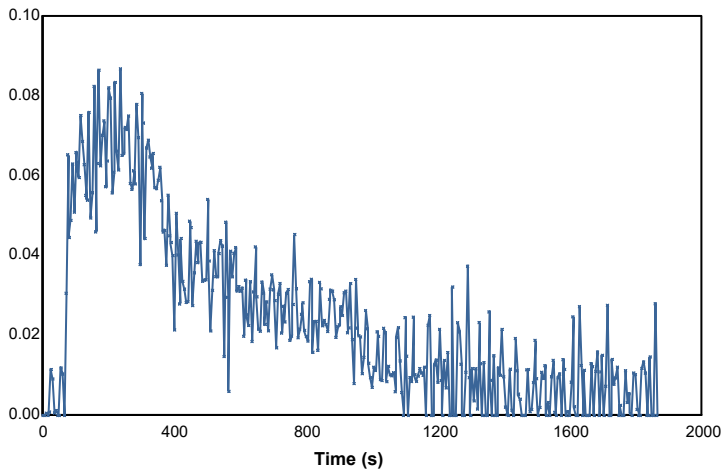
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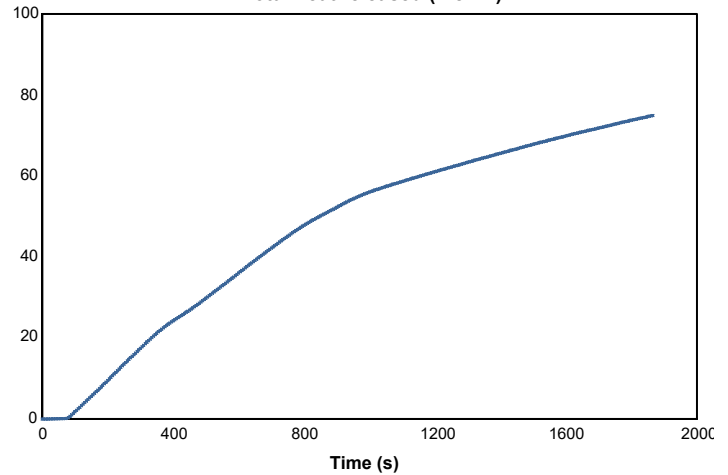
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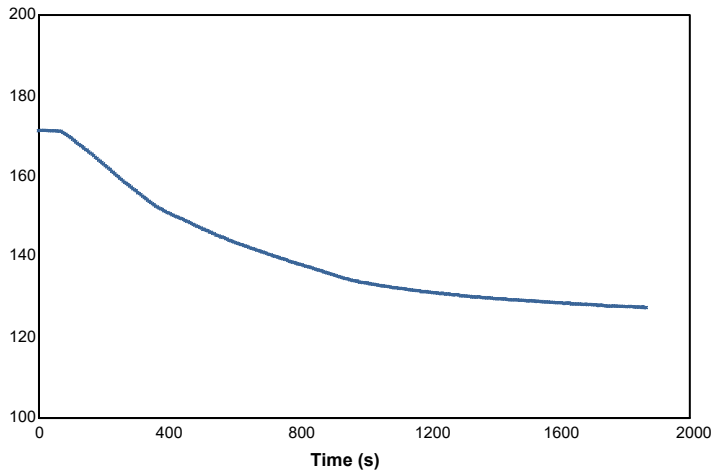
Mass loss rate (g/s)



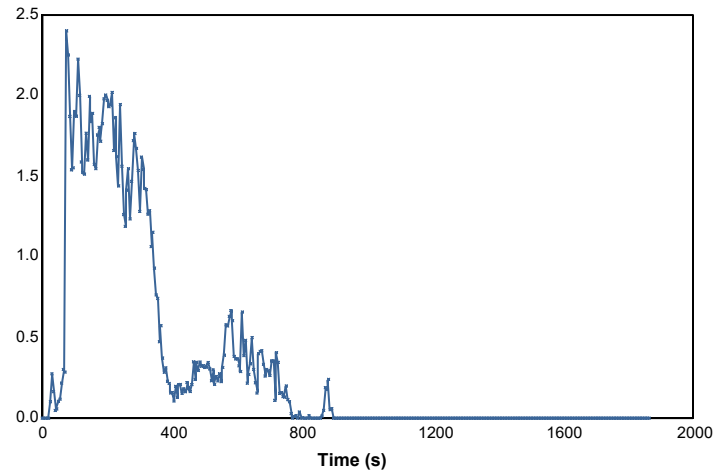
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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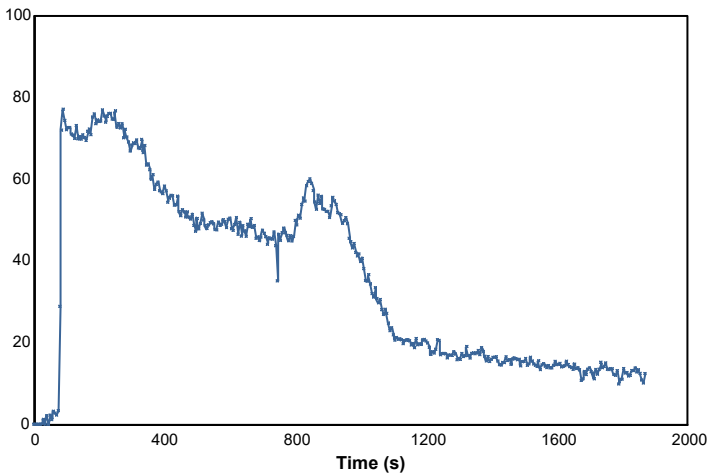
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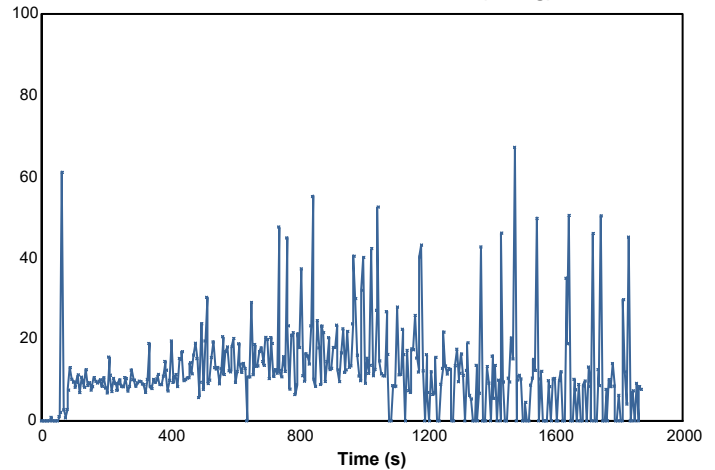
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Specimen : 2

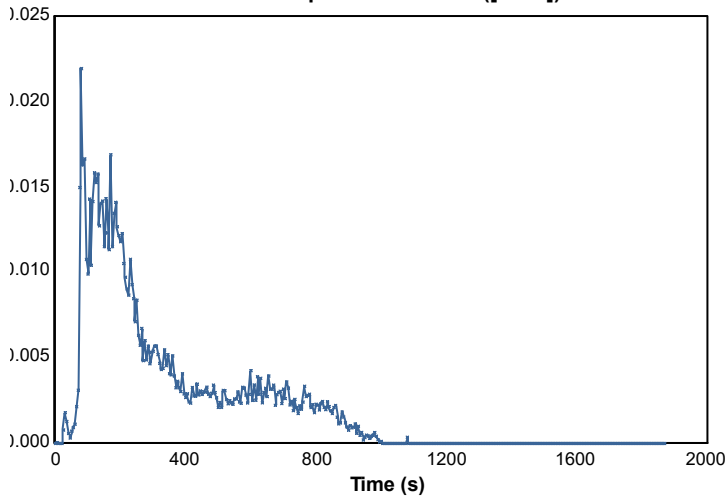
Heat release rate (kW/m²)



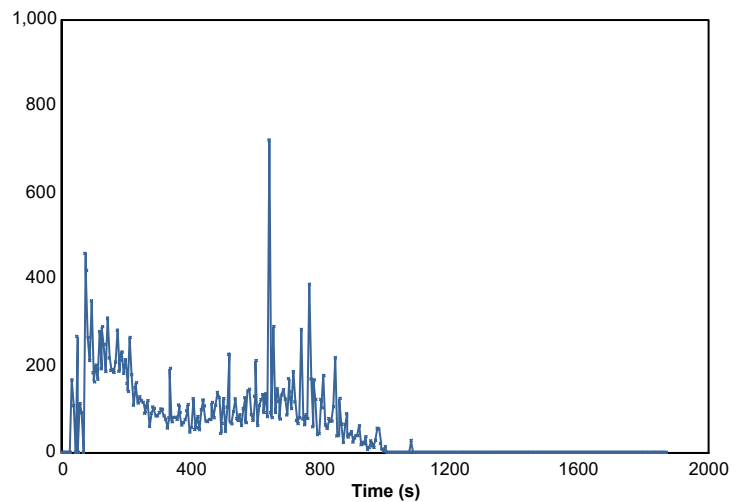
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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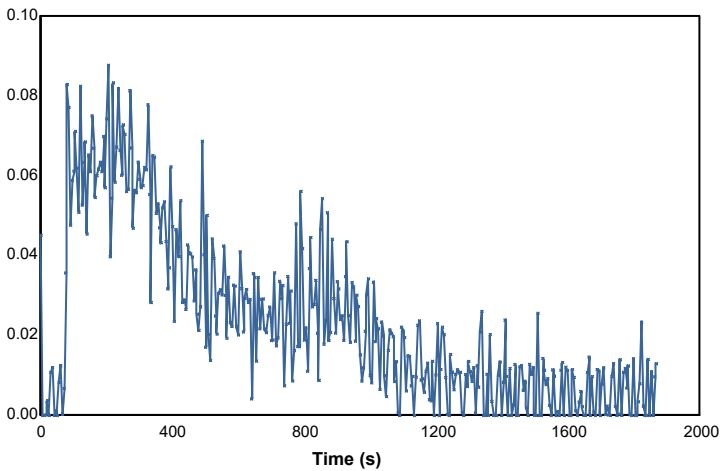
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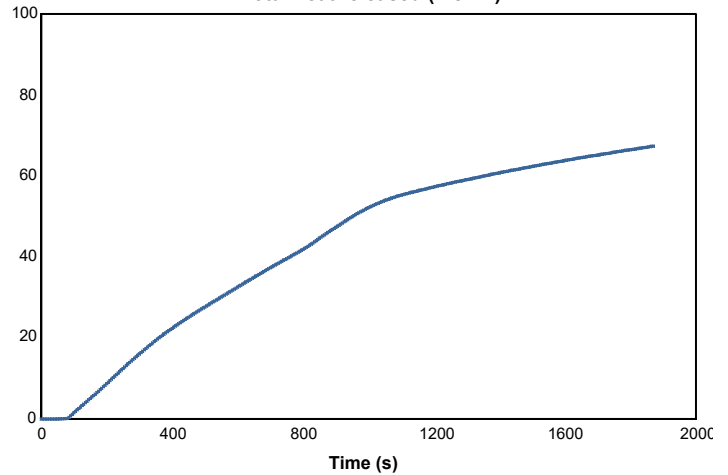
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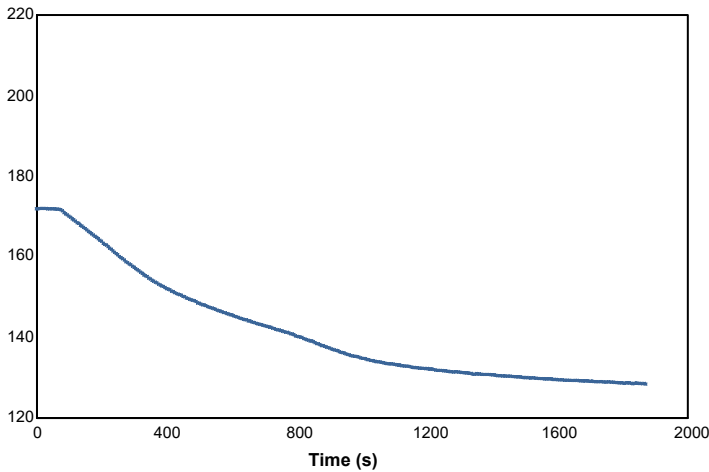
Mass loss rate (g/s)



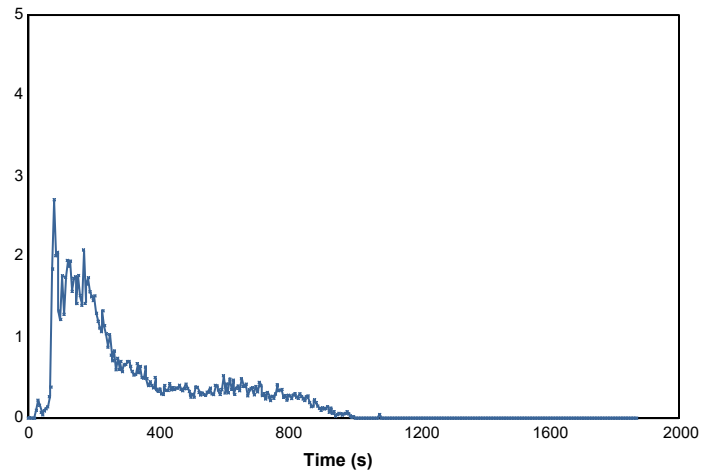
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Page 7 of 9

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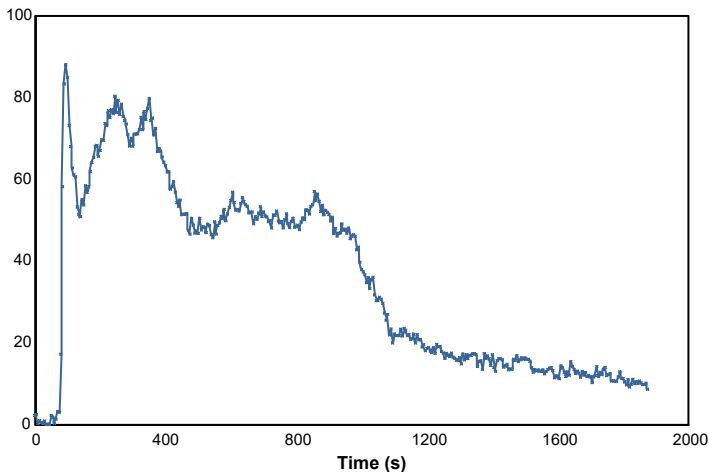
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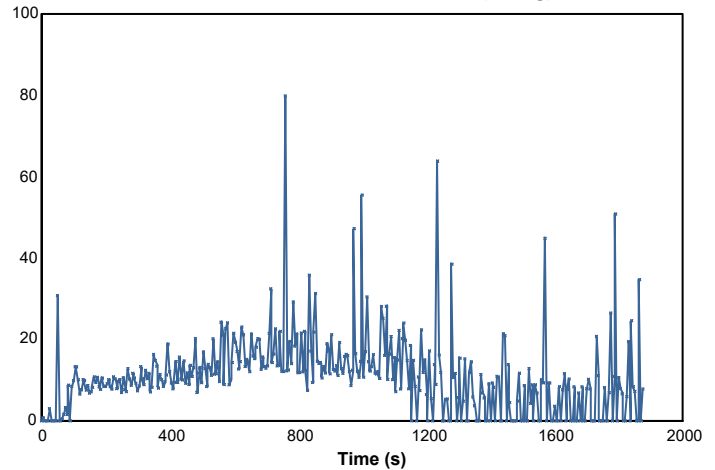
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Specimen : 3

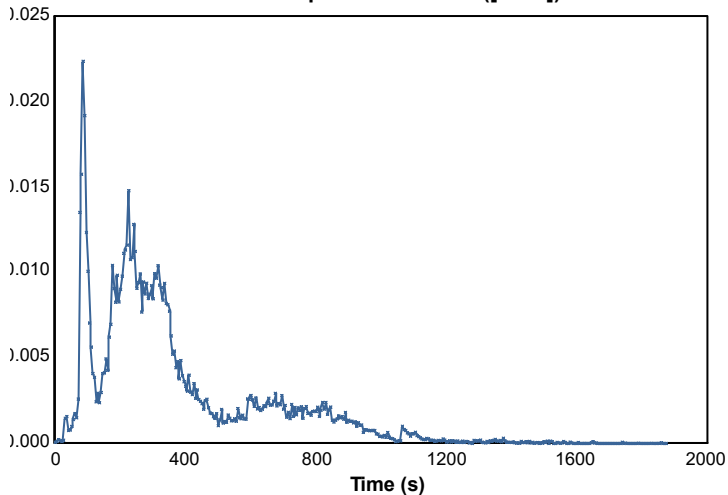
Heat release rate (kW/m²)



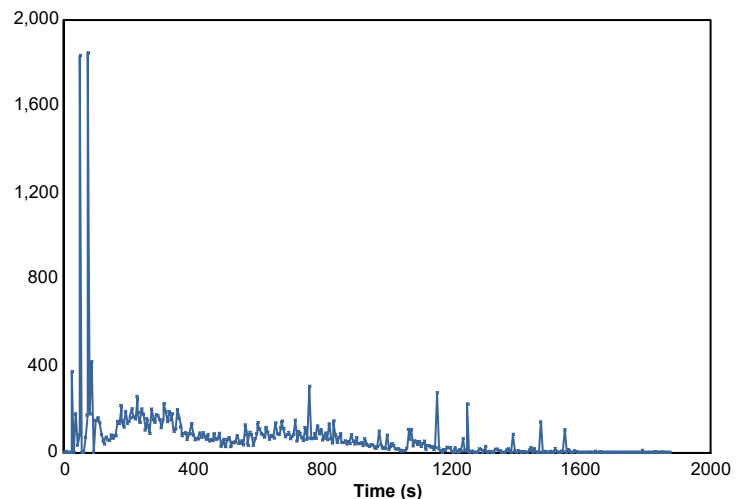
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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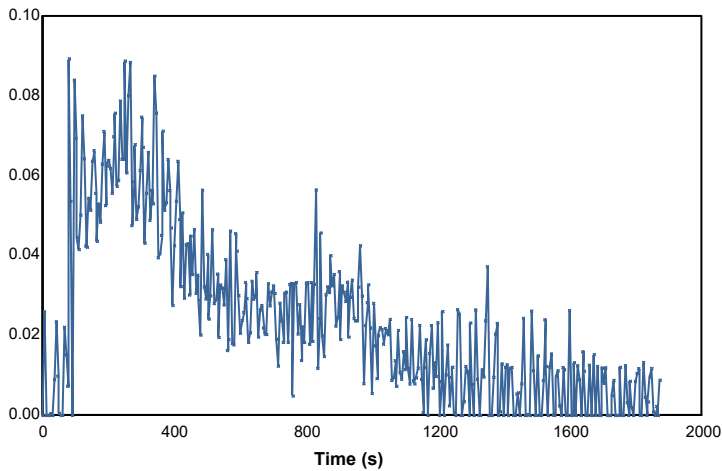
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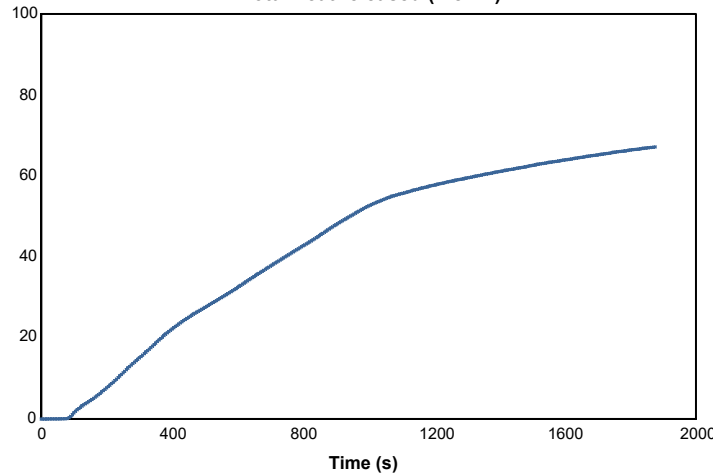
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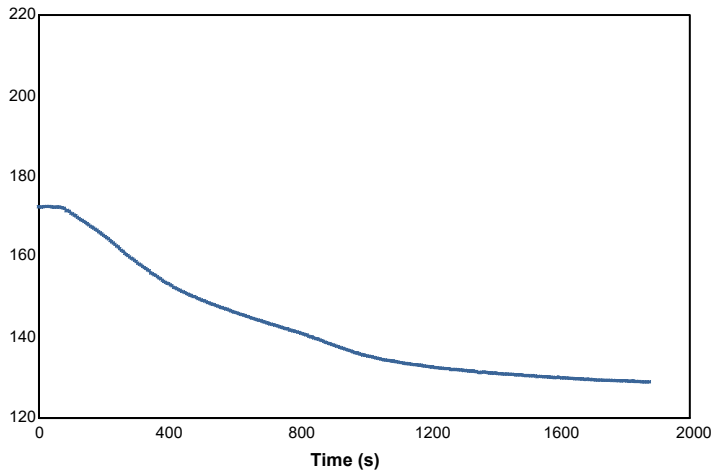
Mass loss rate (g/s)



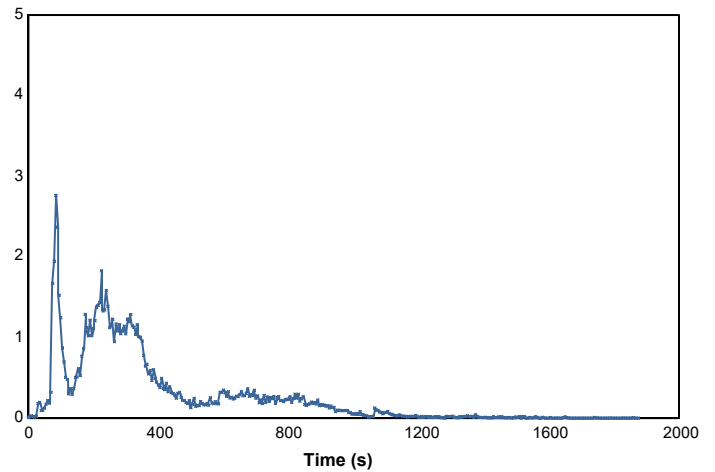
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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