

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

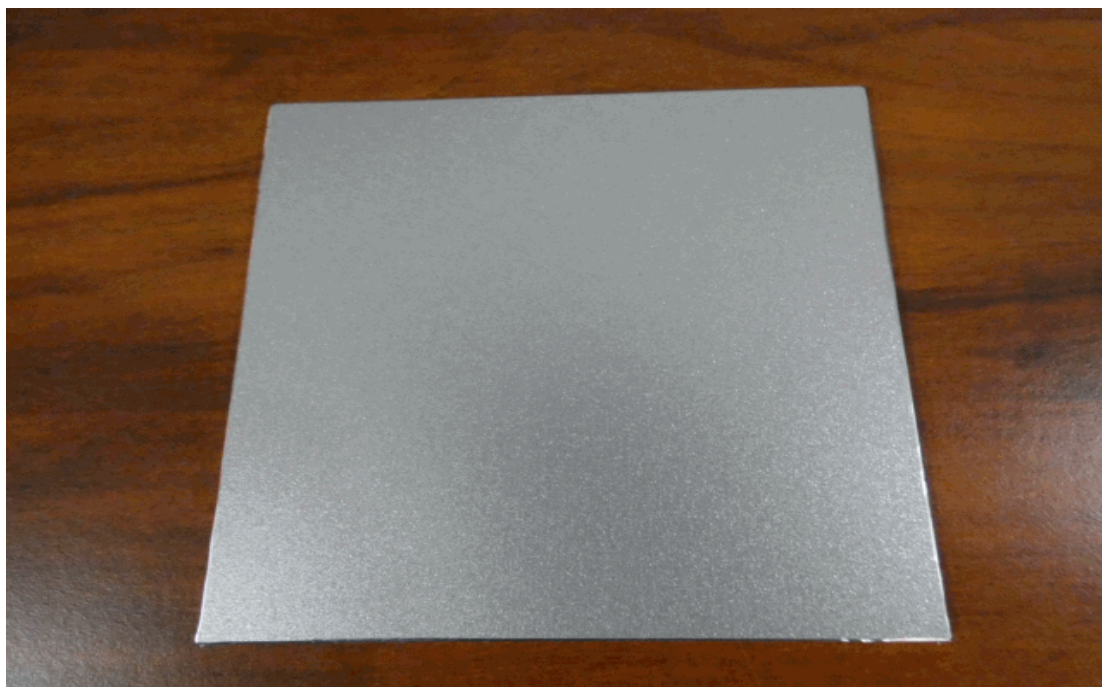
TEST REPORT

Client : The Building Agency Ltd
14 Link Drive
Wairau Valley 0627 New Zealand
New Zealand

Test Number : 23-002688
Issue Date : 14/07/2023
Print Date : 21/07/2023

Sample Description

Clients Ref : "Aluco Pro - Alucolux LSS"
Rigid Panel
Colour : Silver
End Use : Exterior Cladding
Nominal Composition : 2x 1mm Aluminium Skins laminated together
Nominal Mass per Unit Area/Density : 5.4kg/m2
Nominal Thickness : 2mm



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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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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 14-07-2023
Operator AWTA Test Operator 9
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	fti	fti	fti	fti	kW/m ²
Average Specific extinction area				15.1	

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	fti	fti	fti	fti	sec
Test duration	900	900	900	900	sec
Initial thickness	8	8	8	8.0	mm
Initial mass	150.1	146.2	142.2	146.2	g
Mass at sustained flaming	n/a	n/a	n/a	n/a	g
Mass remaining	135.6	133.9	133.5	134.3	g
Mass percentage pyrolysed					
Total smoke Production (Non Flaming phase)	26.3	13.6	25.1	21.7	m ² /m ²
Total smoke Production (Flaming phase)	0.0	0.0	0.0	-	m ² /m ²

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Total smoke Production (Non Flaming & Flaming phase)	26.3	13.6	25.1	21.7	m ² /m ²
C-Factor (Calibration Constant)	0.041538	0.041538	0.041538	-	
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

fti = failed to ignite

Specimen failed to ignite

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

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.

Release liner removed prior to testing.

Modified: Results calculated with data captured to 900 seconds in accordance with NZBC

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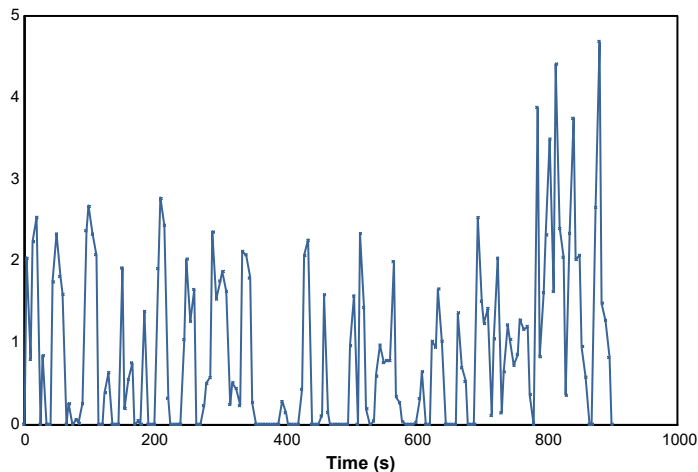
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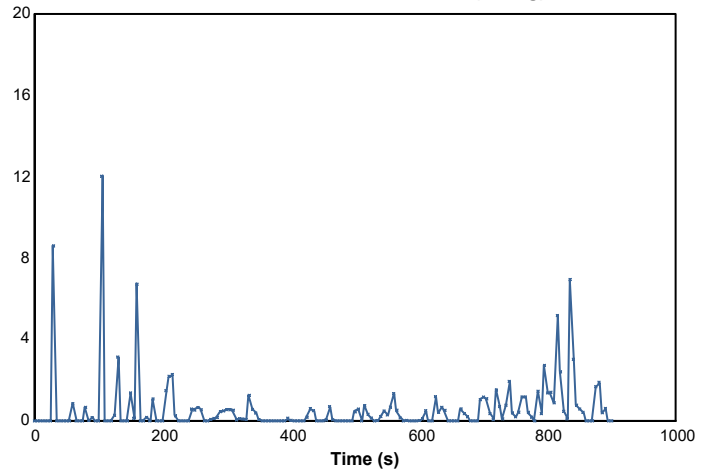
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Specimen : 1

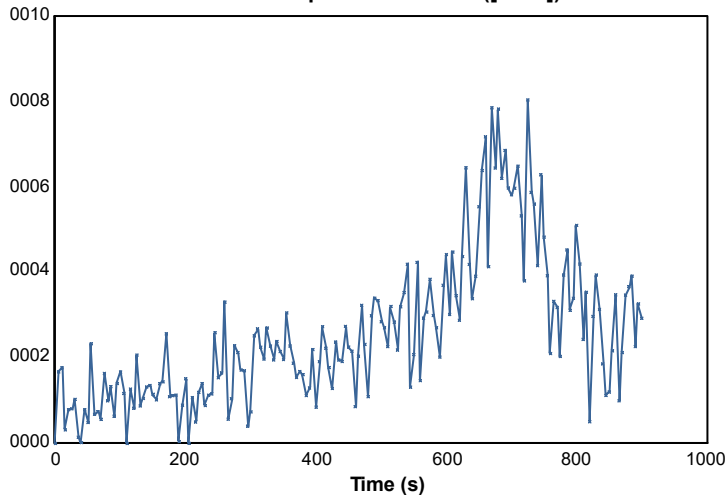
Heat release rate (kW/m²)



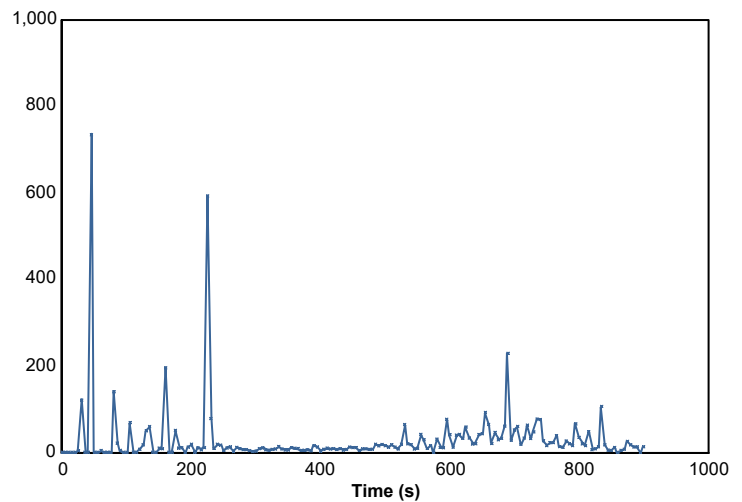
Effective heat of combustion (MJ/kg)



Smoke production rate ((m²/s))



Specific extinction area (m²/kg)



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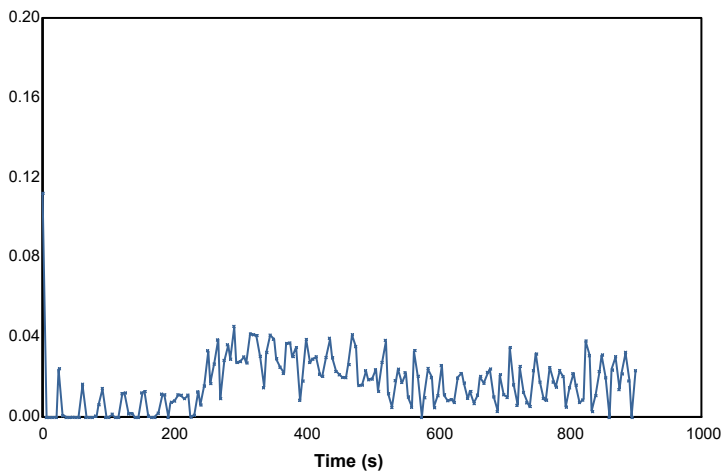
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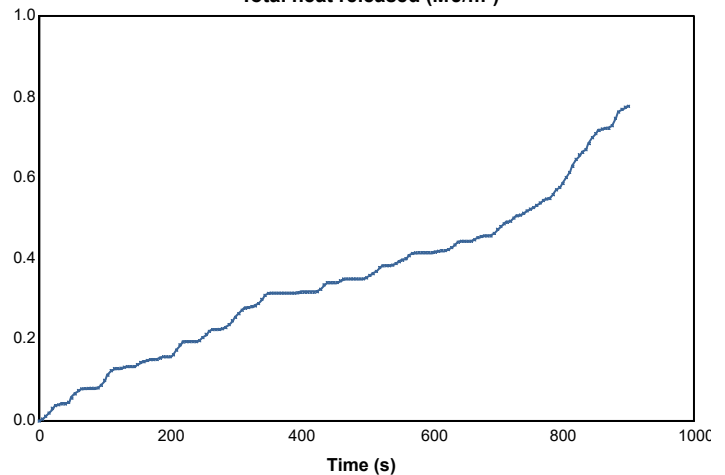
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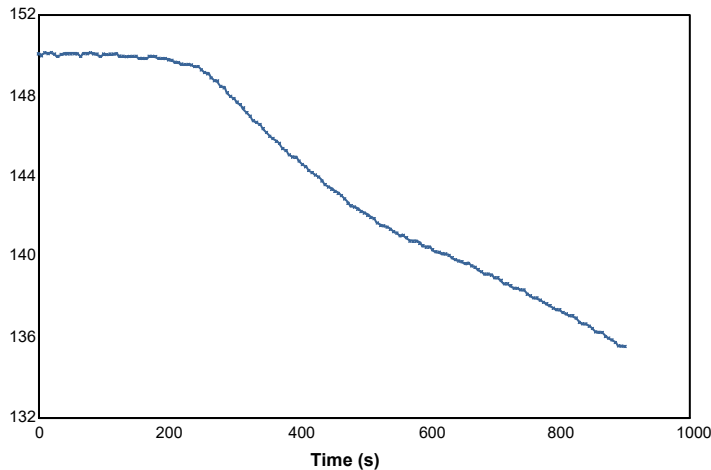
Mass loss rate (g/s)



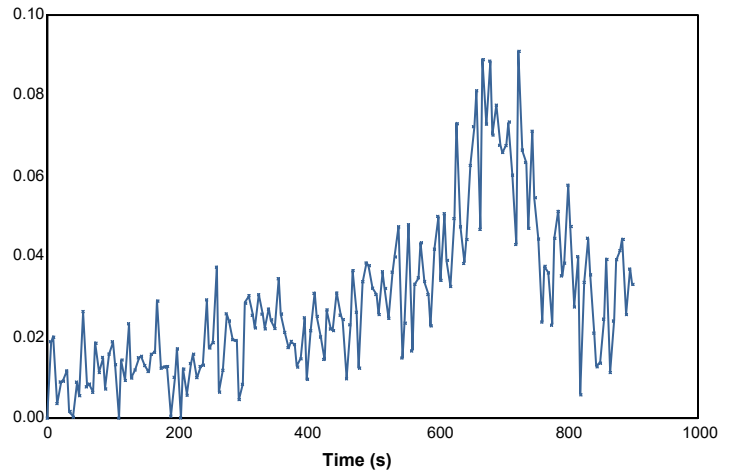
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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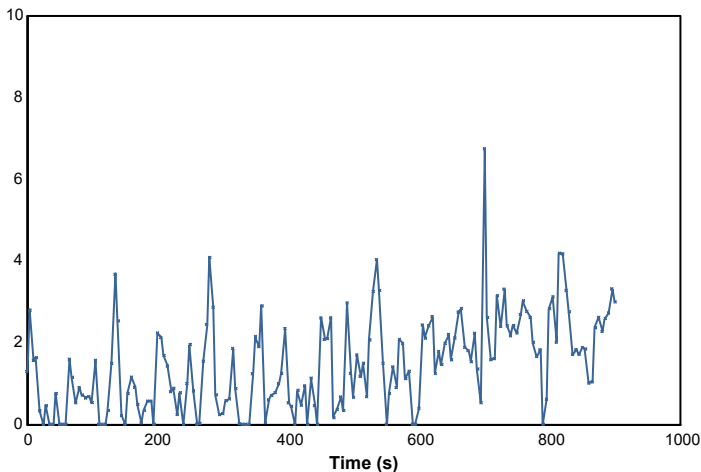
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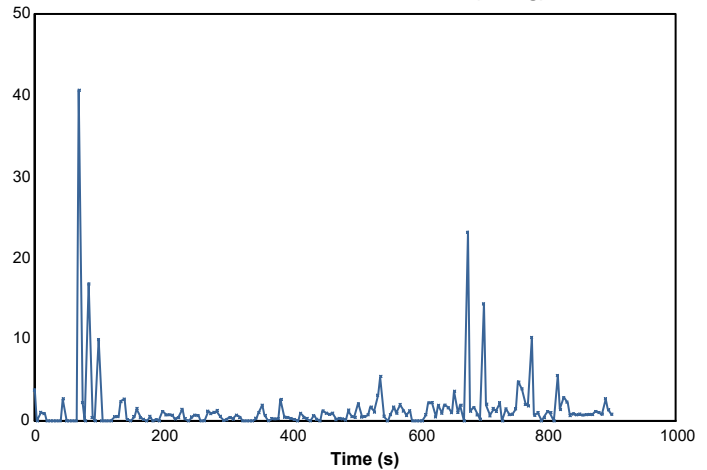
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Specimen : 2

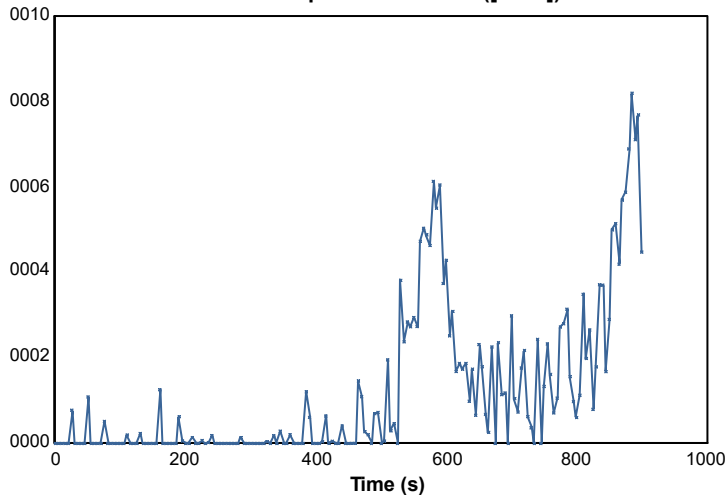
Heat release rate (kW/m²)



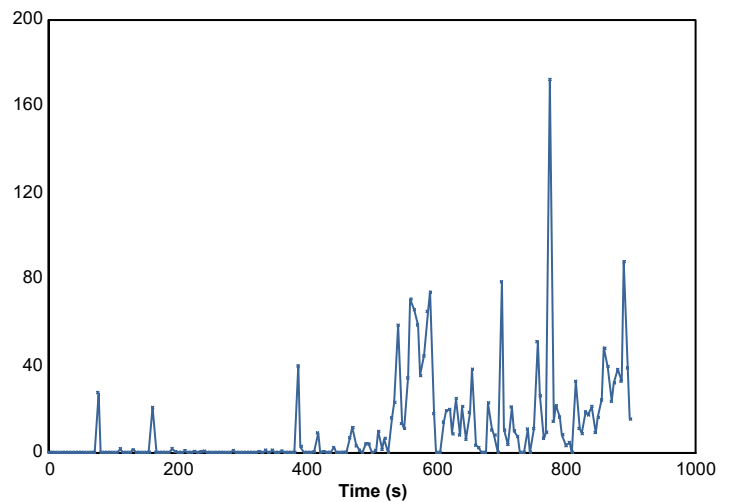
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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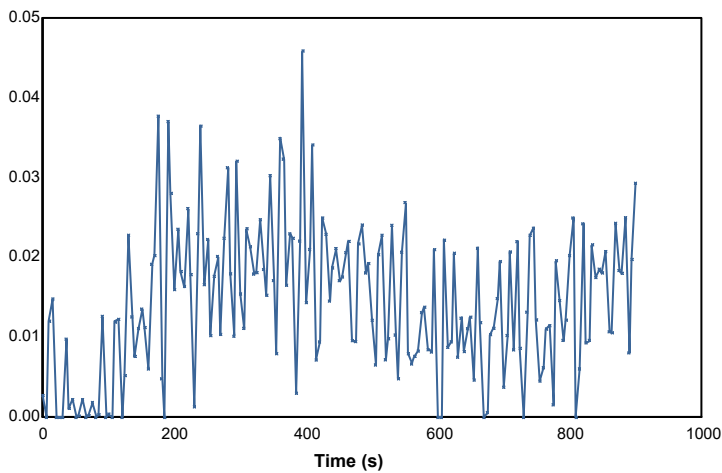
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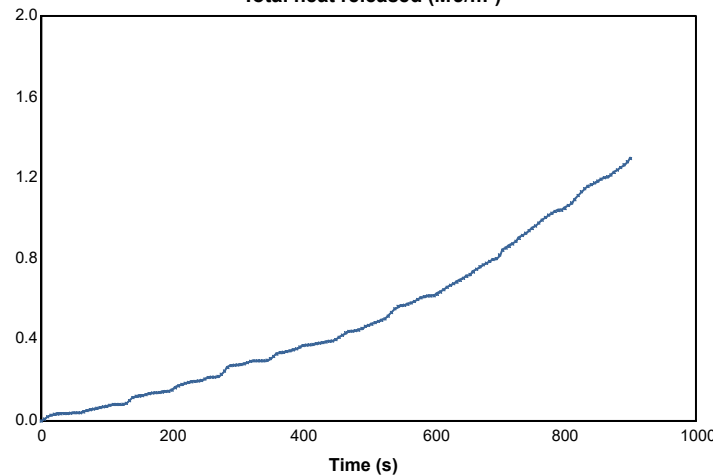
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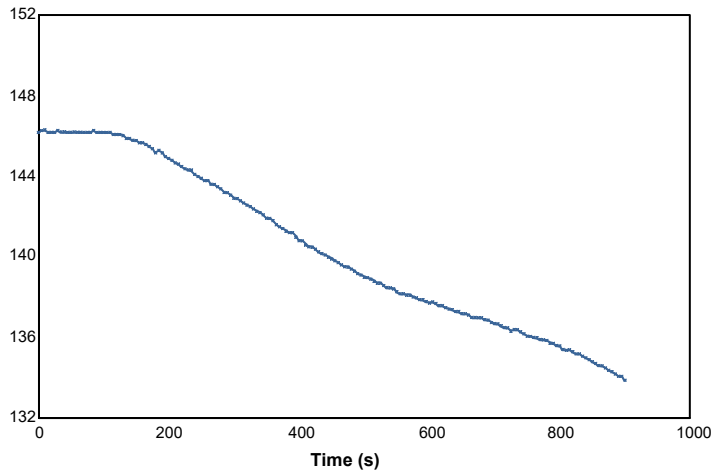
Mass loss rate (g/s)



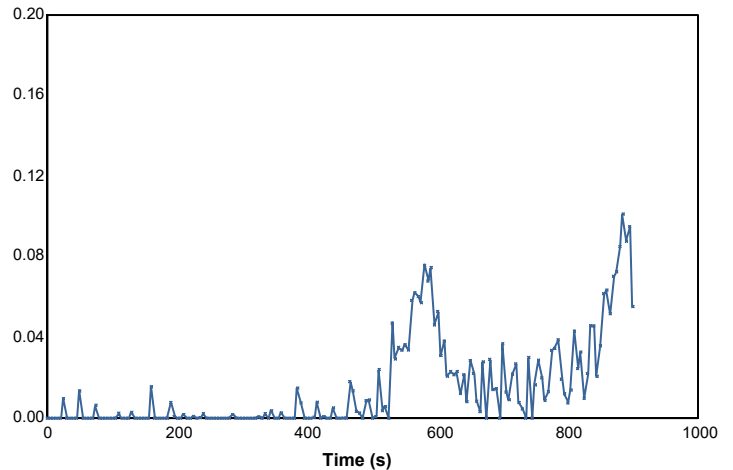
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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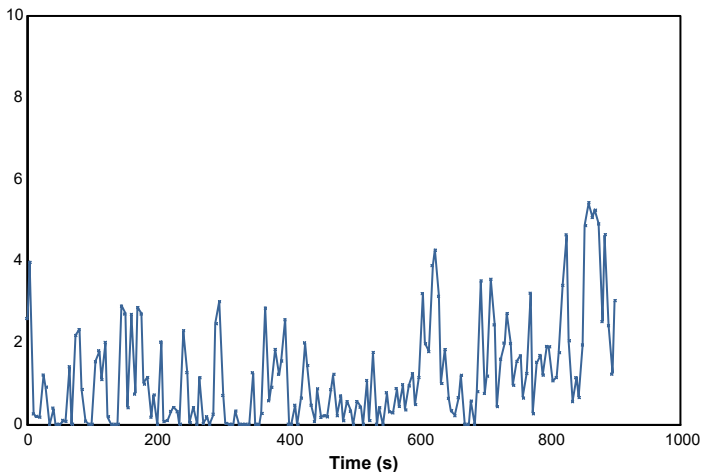
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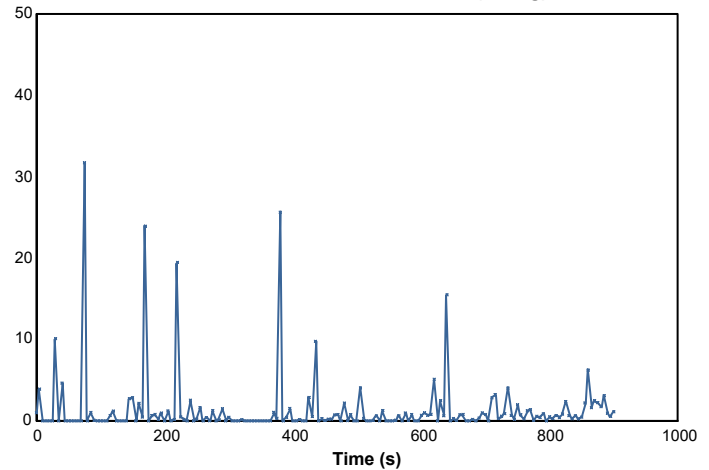
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Specimen : 3

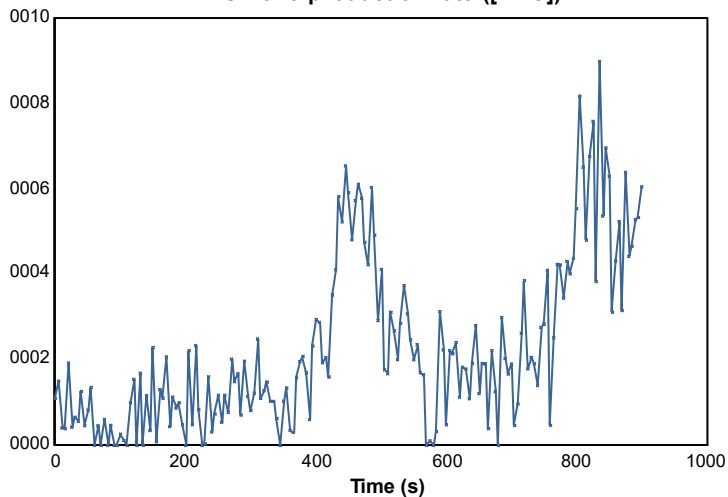
Heat release rate (kW/m²)



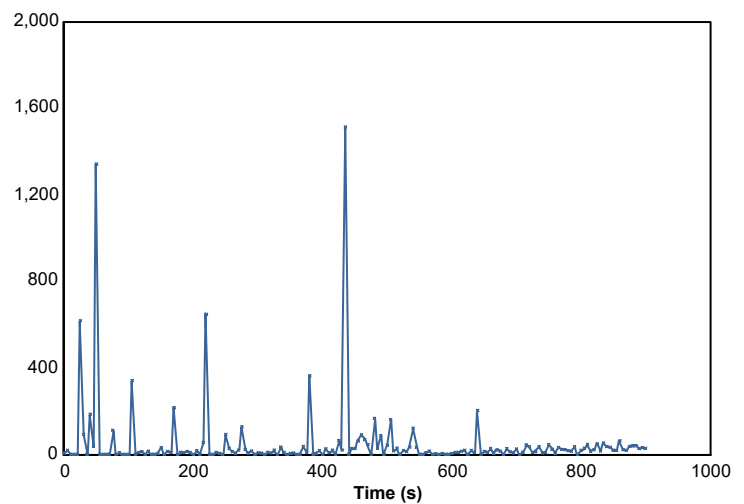
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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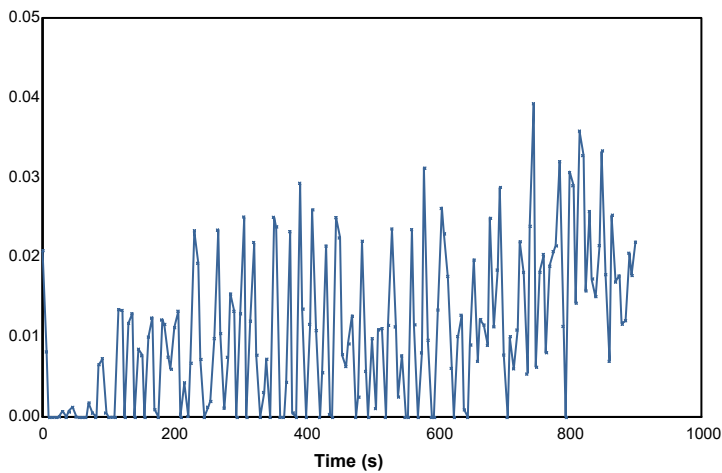
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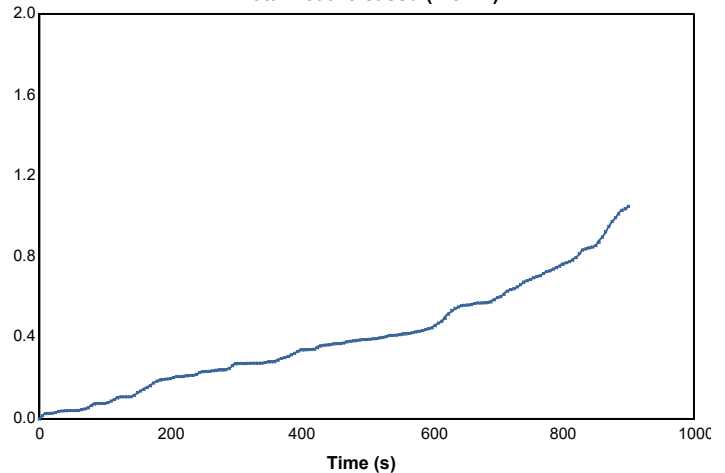
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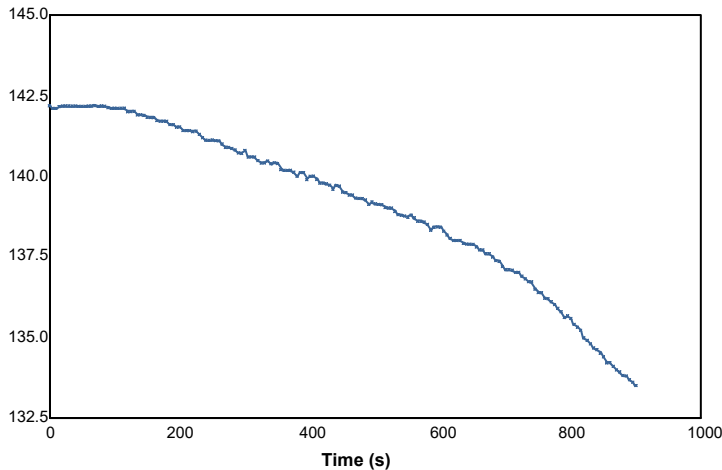
Mass loss rate (g/s)



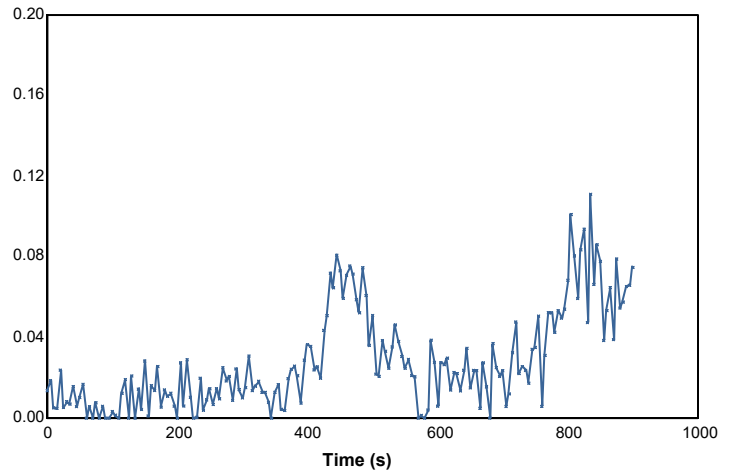
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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