

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 : That Metal Company
Unit 7, 13 Lyell Street
Mittagong NSW 2575

Test Number : 21-000333
Issue Date : 15/02/2021
Print Date : 16/02/2021

Sample Description Clients Ref : "Anodized Aluminium - 900 Series"
Aluminium plate
Nominal Mass per Unit Area/Density : 1739g/m2
Nominal Thickness : Approx 1mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 15-02-2021

Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	fti	fti	fti	fti	kW/m ²
Average Specific extinction area	1.4	41.1	36.8	26.4	m ² /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 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	600	600	600	600	sec
Initial thickness	11	11	11	11.0	mm
Initial mass	71.8	70.6	71.5	71.3	g
Mass remaining	63.6	61.8	62.5	62.6	g
Mass percentage pyrolysed	11.4	12.4	12.6	12.1	%
Mass loss	1.0	1.1	1.1	1.1	kg/m ²
Average rate of mass loss	1.7	1.8	1.9	1.8	g/m ² .s

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

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Additional Observations None

Difficulties Encountered during Testing None

fti = failed to ignite

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.

Samples were loose laid onto a substrate of 10mm thick plasterboard 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.

Specimens tested failed to ignite within 10 minutes and testing was ceased as per section 2.5.2(i).

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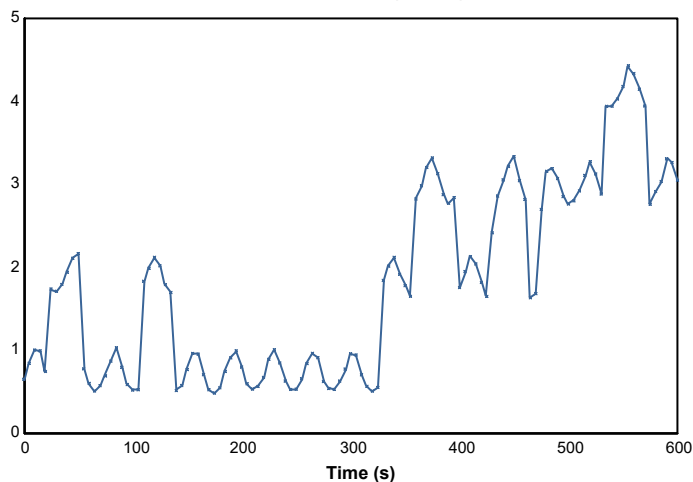
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Issue Date : 15/02/2021

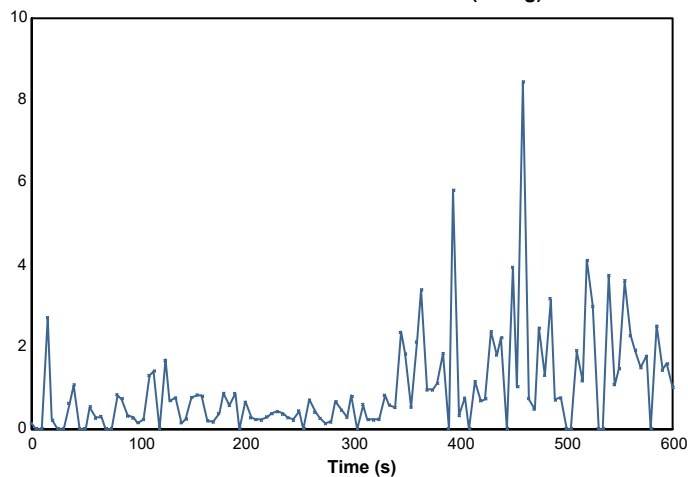
Print Date : 16/02/2021

Specimen : 1

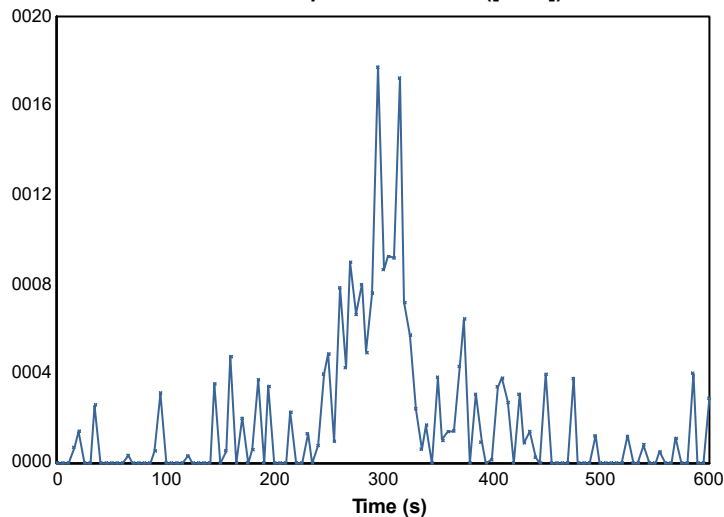
Heat release rate (kW/m²)



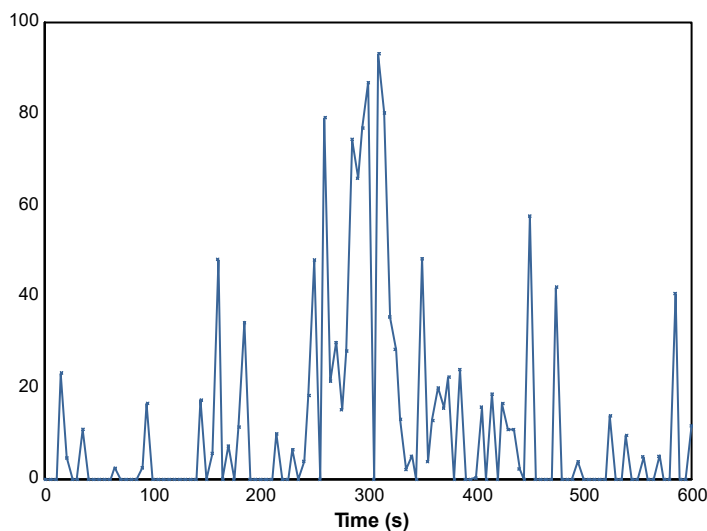
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Page 3 of 8

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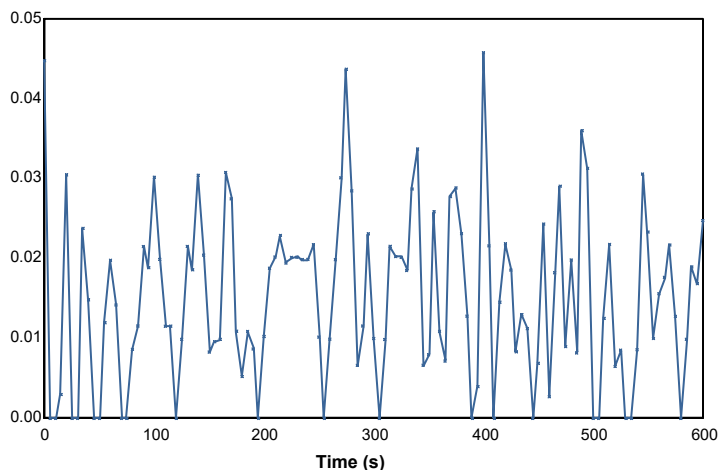
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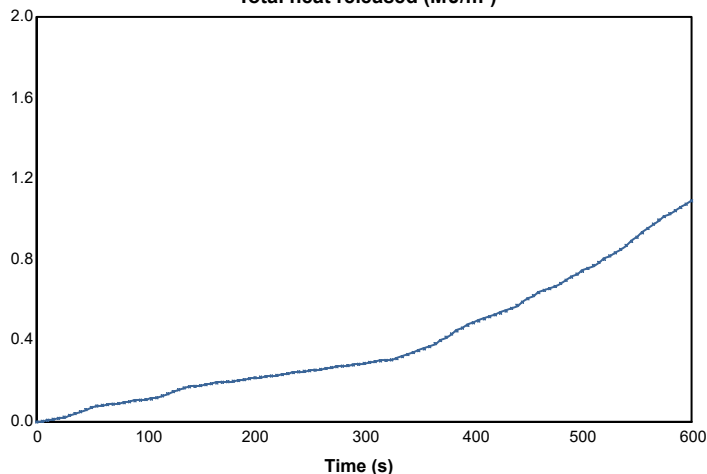
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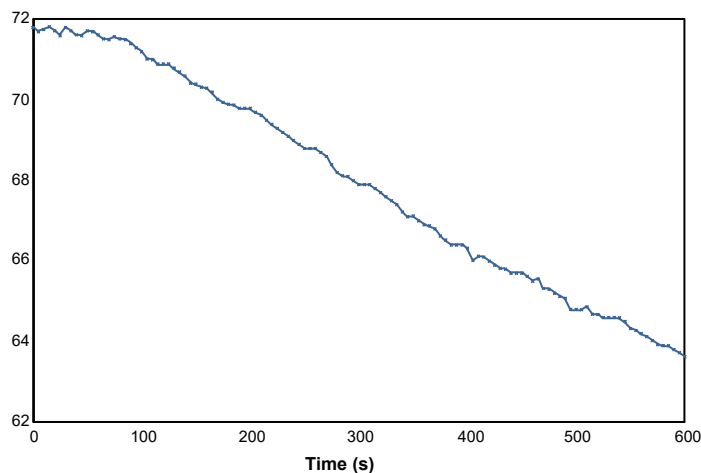
Mass loss rate (g/s)



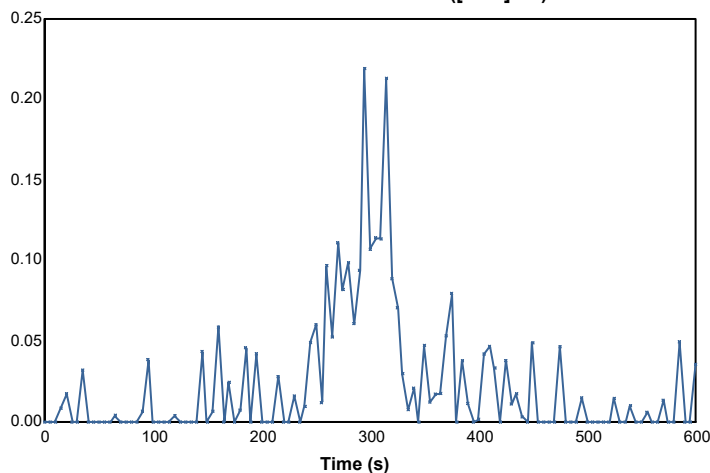
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Page 4 of 8

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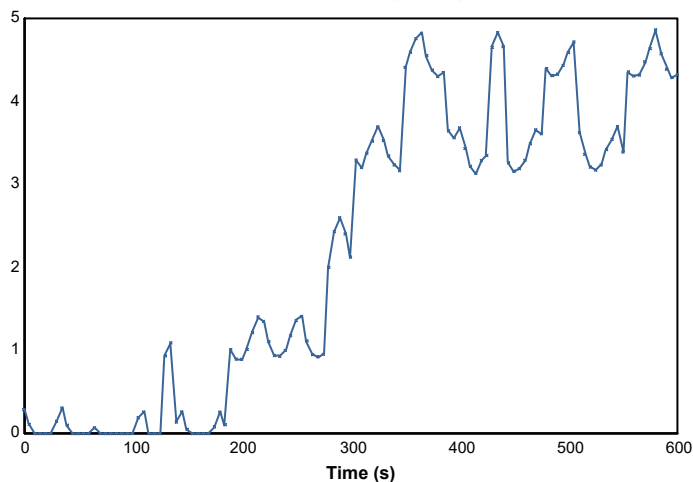
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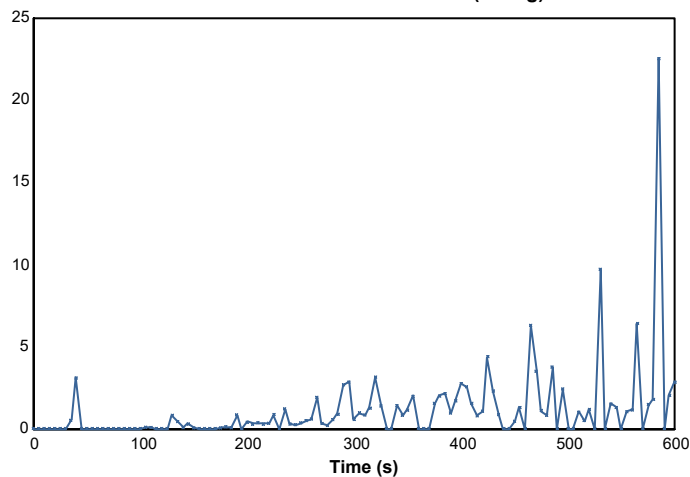
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Specimen : 2

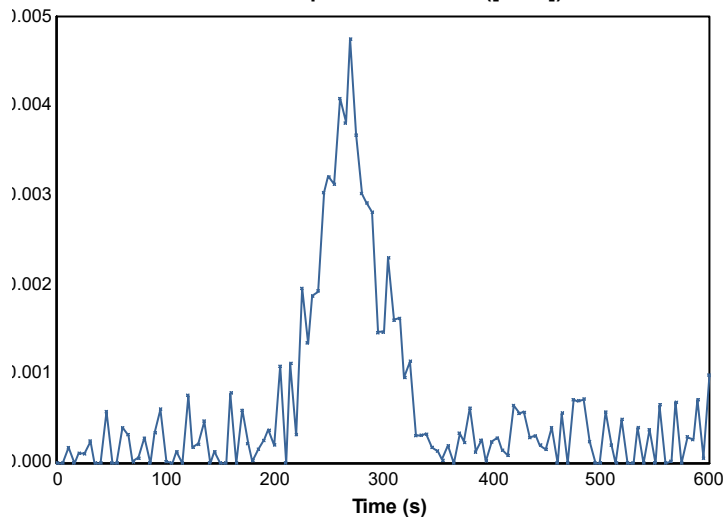
Heat release rate (kW/m²)



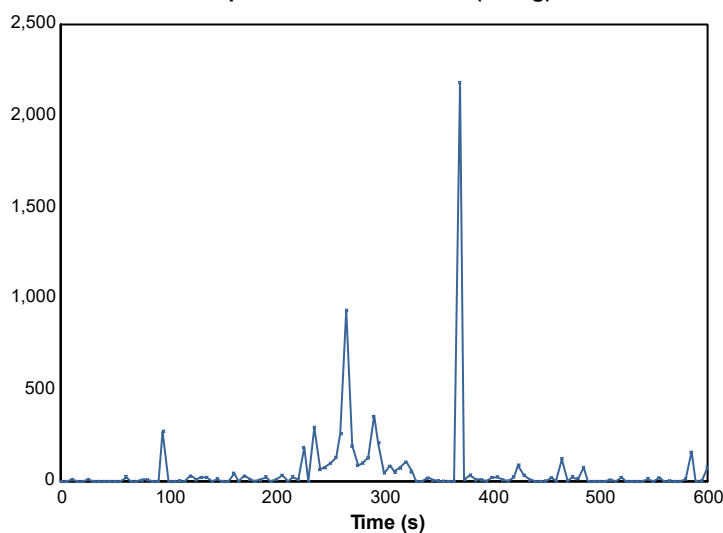
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Page 5 of 8

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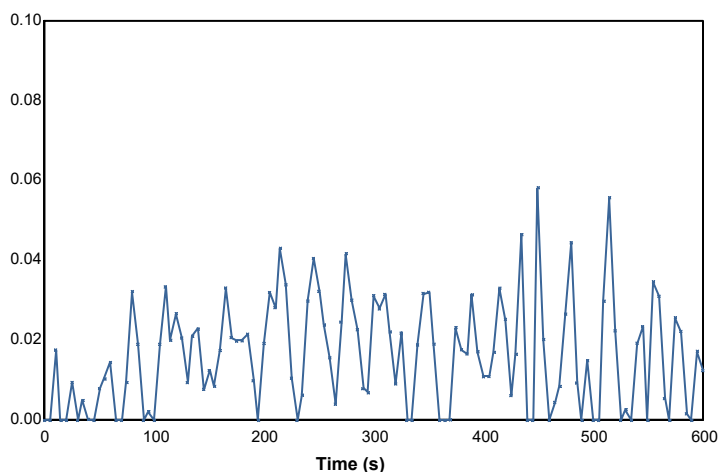
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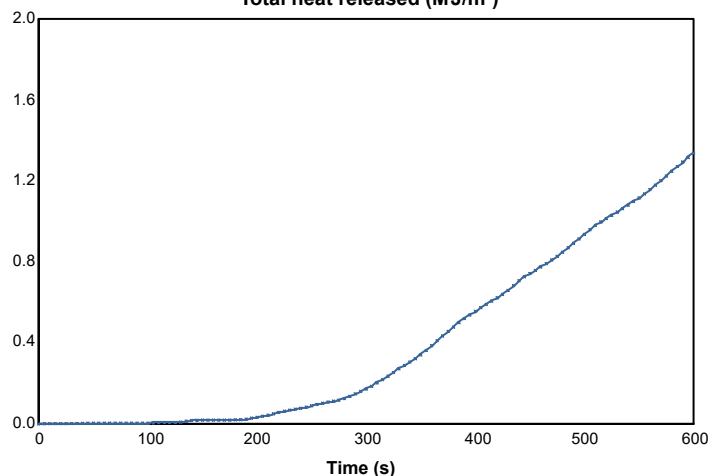
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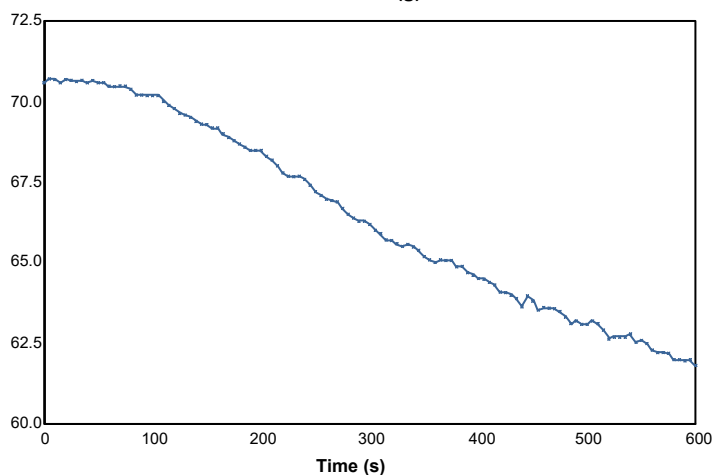
Mass loss rate (g/s)



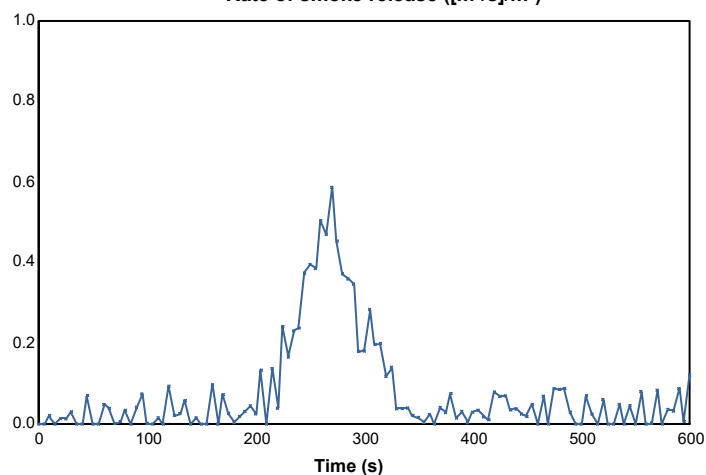
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Page 6 of 8

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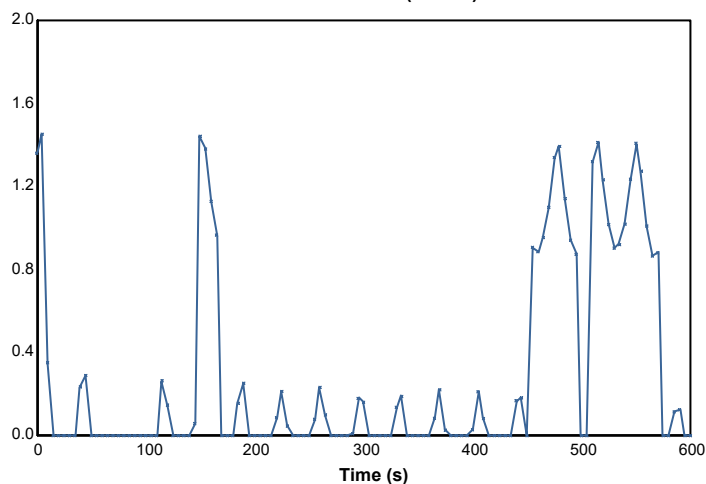
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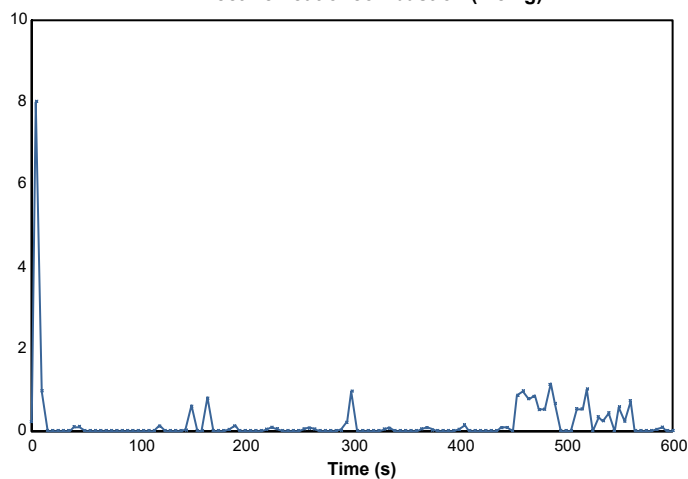
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Specimen : 3

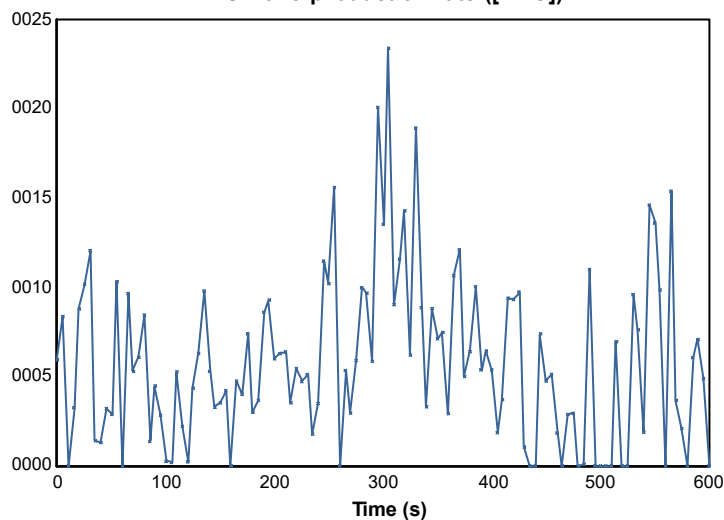
Heat release rate (kW/m²)



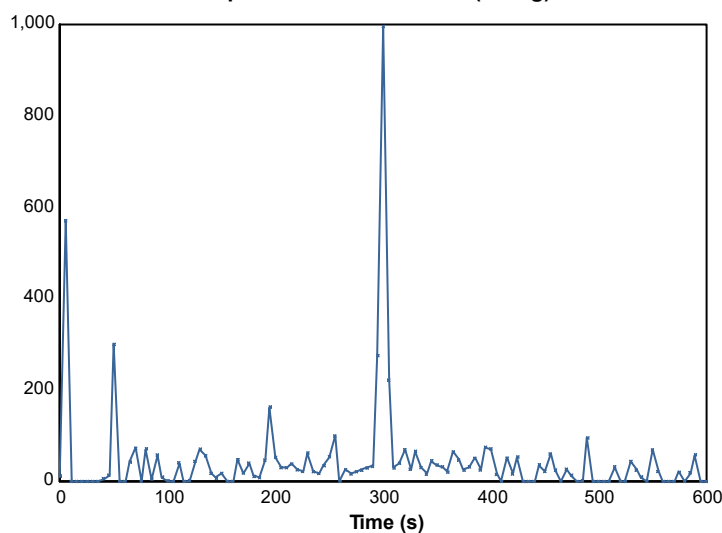
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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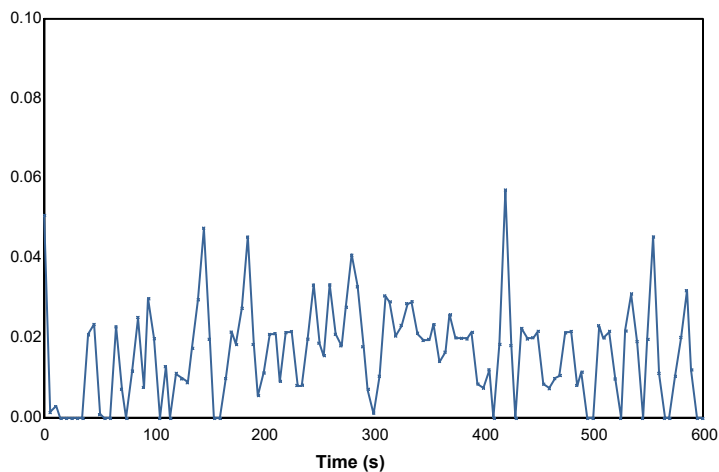
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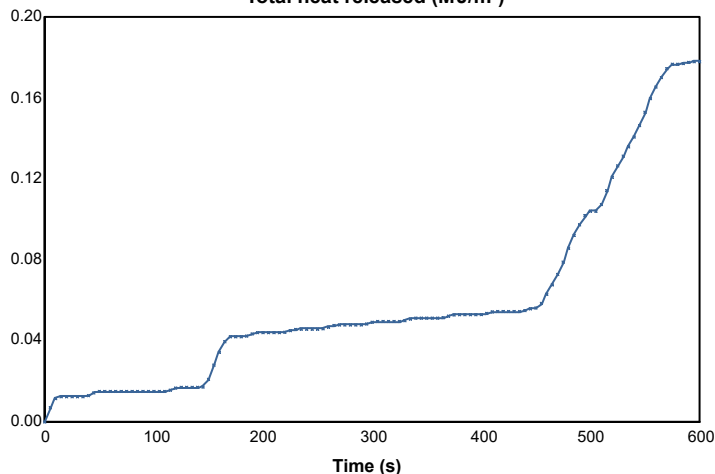
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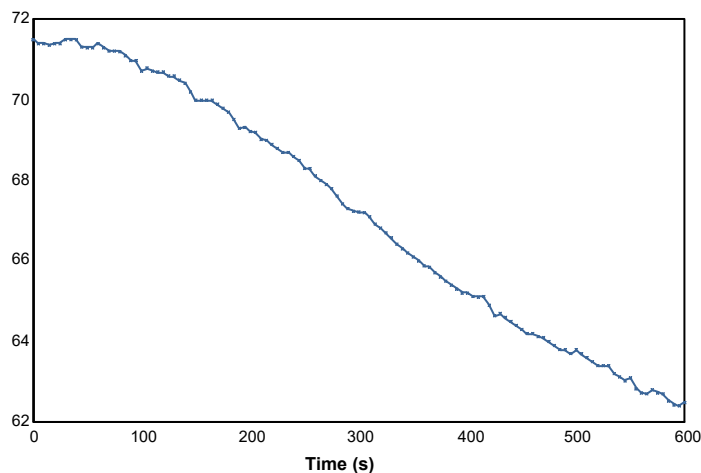
Mass loss rate (g/s)



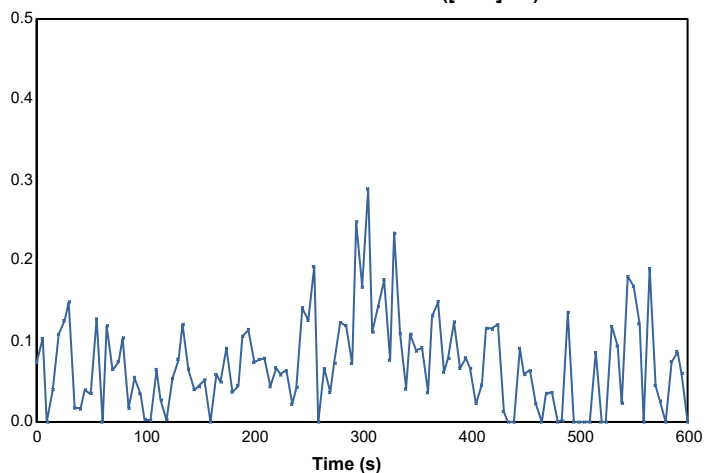
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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