

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 : Veneer Stone Pty Ltd
15 Technology Drive
Appin NSW 2560

Test Number : 21-005890
Issue Date : 13/12/2021
Print Date : 14/12/2021

Sample Description Clients Ref : "Veneer Stone"
Concrete block
Colour : Sand
End Use : Wall Cladding
Nominal Composition : Sand, Cement, Water
Nominal Mass per Unit Area/Density : 60kg/m2
Nominal Thickness : 38mm



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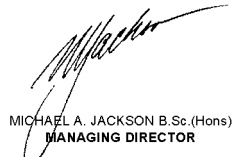


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Fiona McDonald

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 13-12-2021
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	fti	fti	fti	fti	kW/m ²
Average Specific extinction area	0.0	3.5	10.6	4.7	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	38	38	38	38.0	mm
Initial mass	780.9	711.5	740.3	744.2	g
Mass remaining	770.4	699.4	729.3	733.0	g
Mass percentage pyrolysed	1.4	1.7	1.5	1.5	%

Additional Observations NONE

Difficulties Encountered during Testing NONE

fti = failed to ignite

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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.

Specimen thickness was reduced to 38mm for testing purposes.

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.

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

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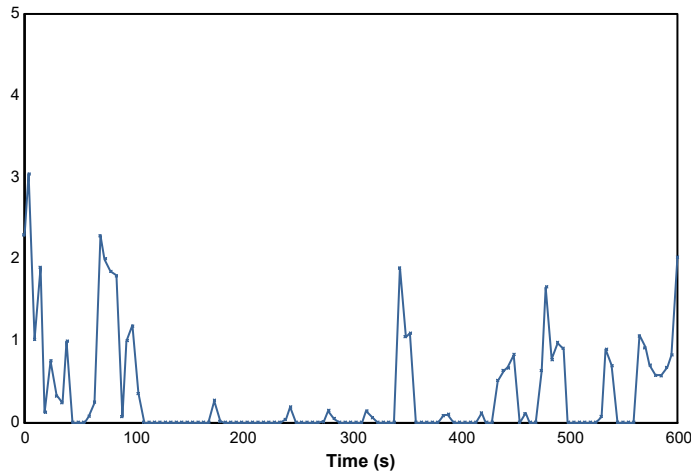
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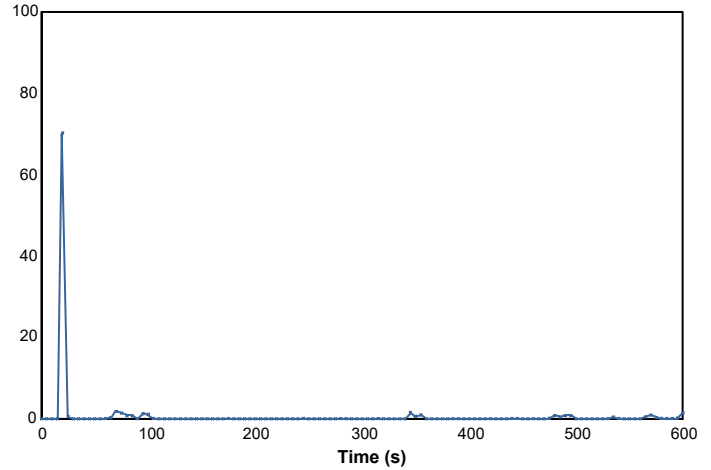
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Specimen : 1

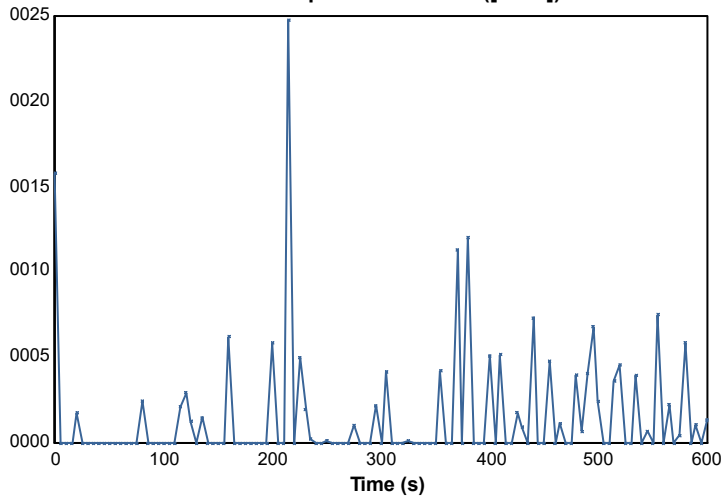
Heat release rate (kW/m²)



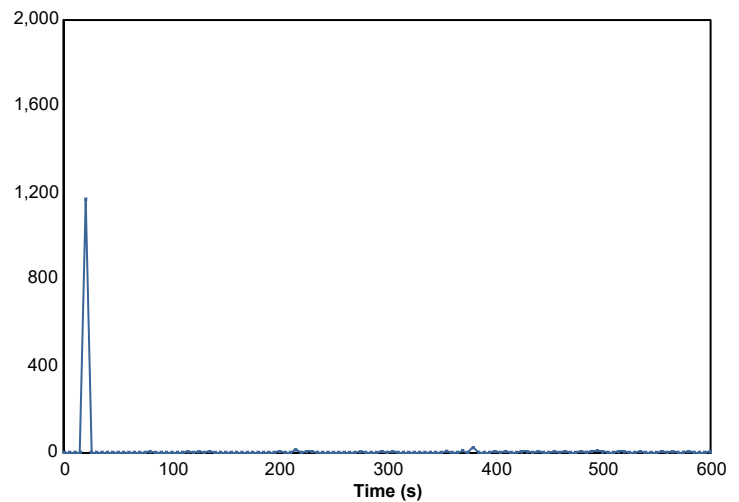
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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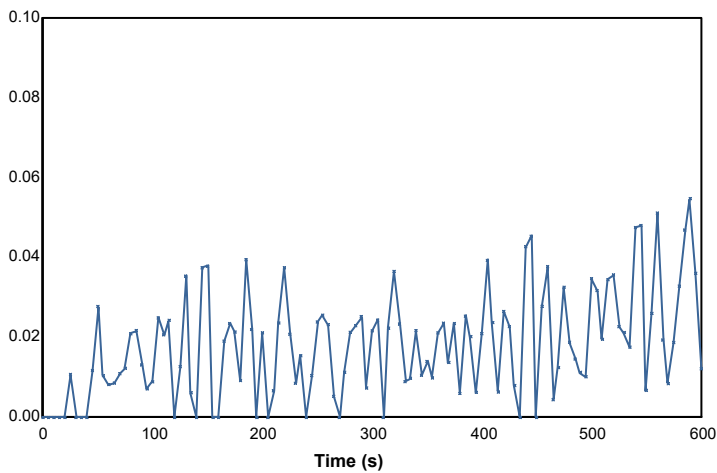
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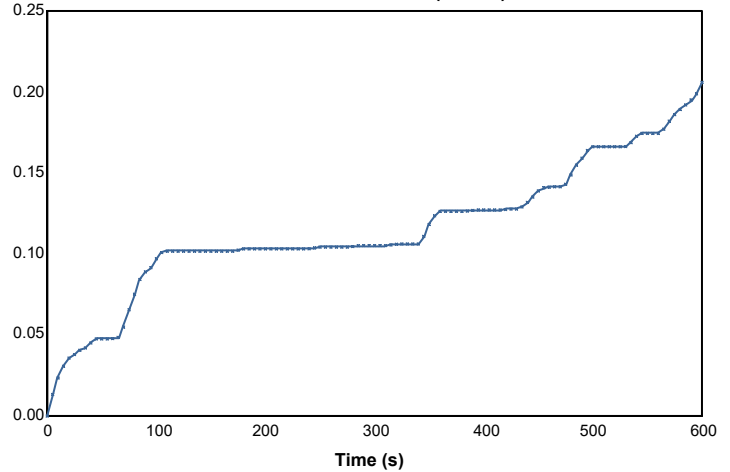
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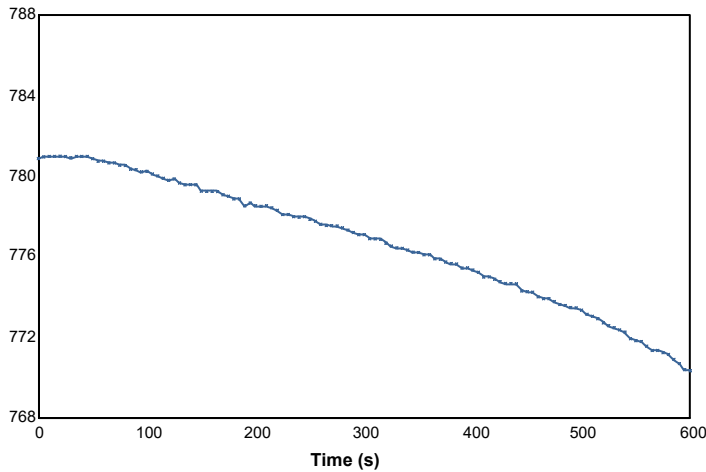
Mass loss rate (g/s)



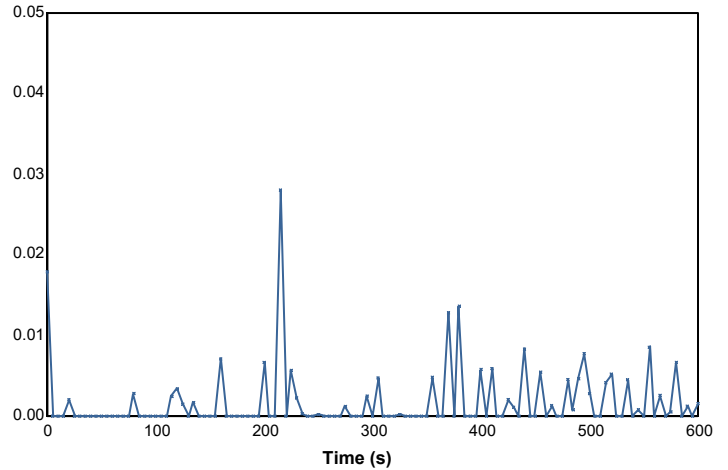
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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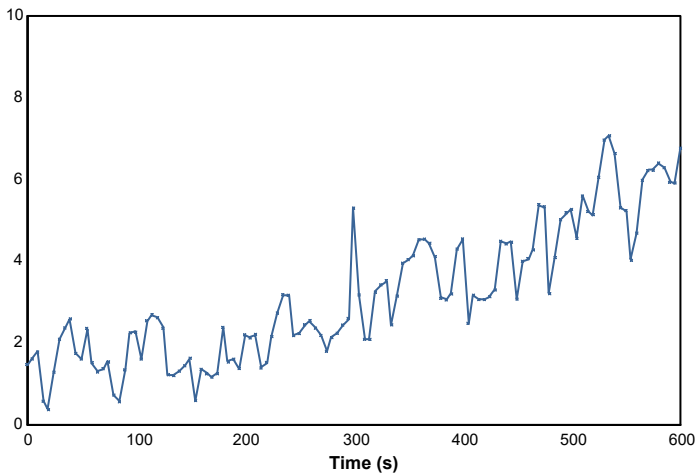
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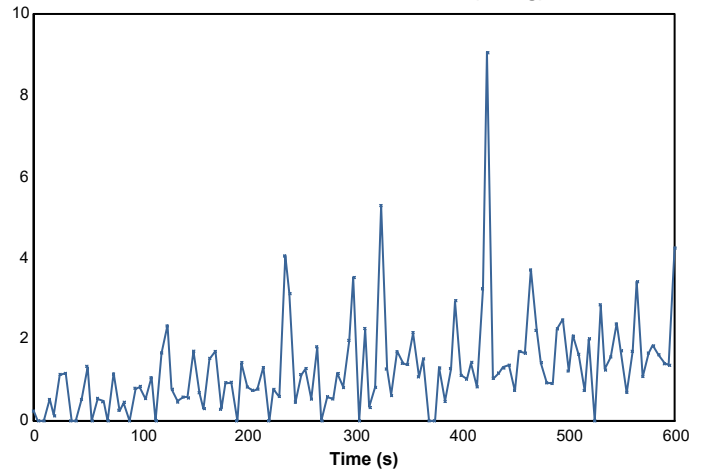
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Specimen : 2

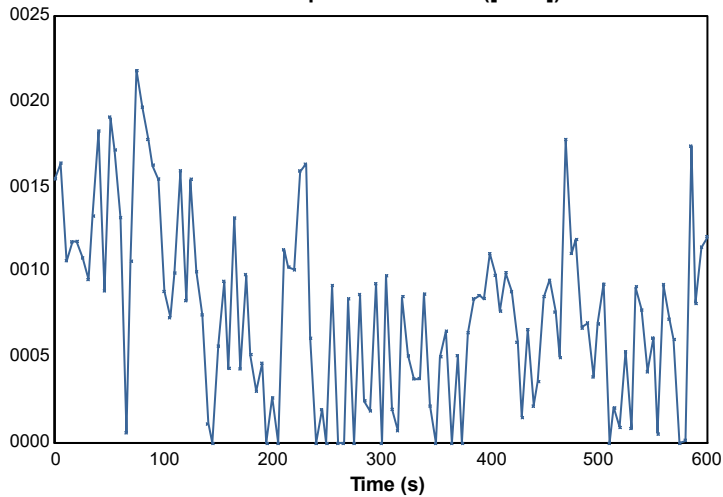
Heat release rate (kW/m²)



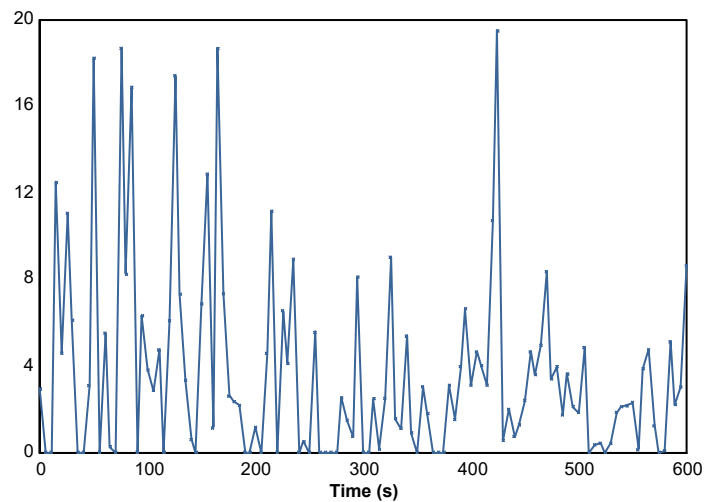
Effective heat of combustion (MJ/kg)



Smoke production rate ((m²/s))



Specific extinction area (m²/kg)



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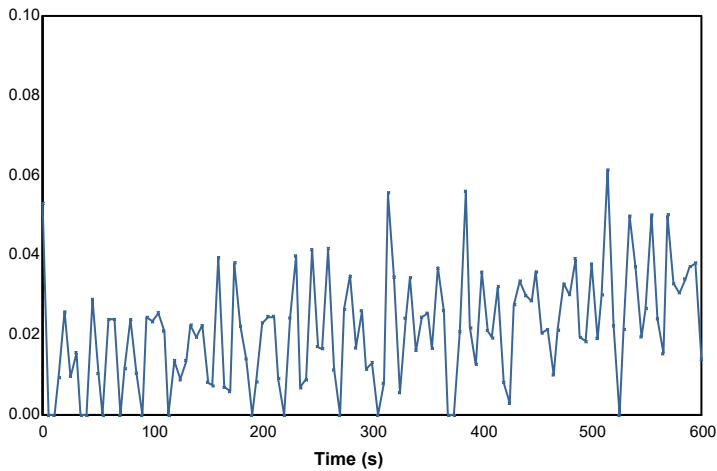
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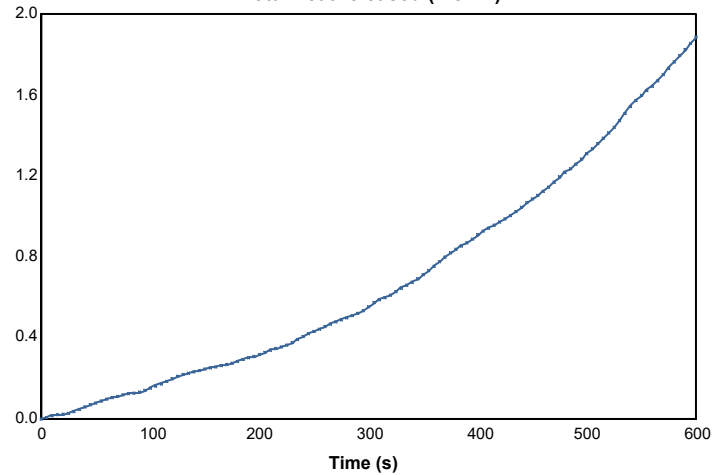
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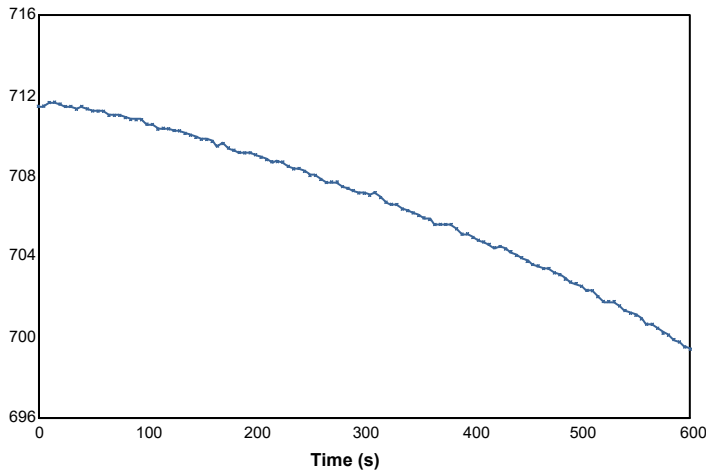
Mass loss rate (g/s)



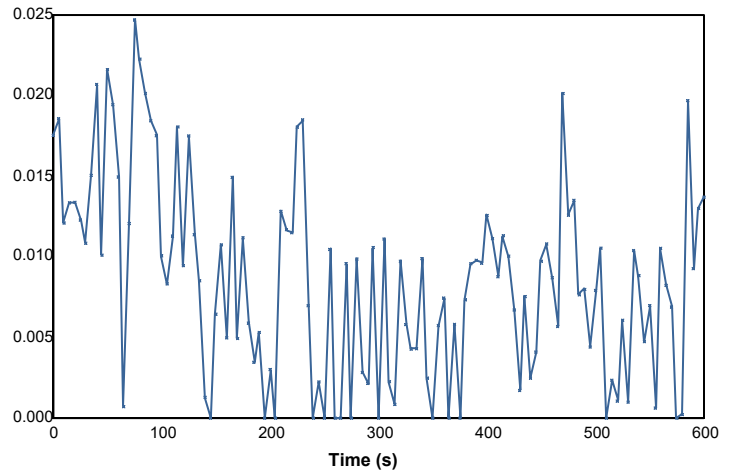
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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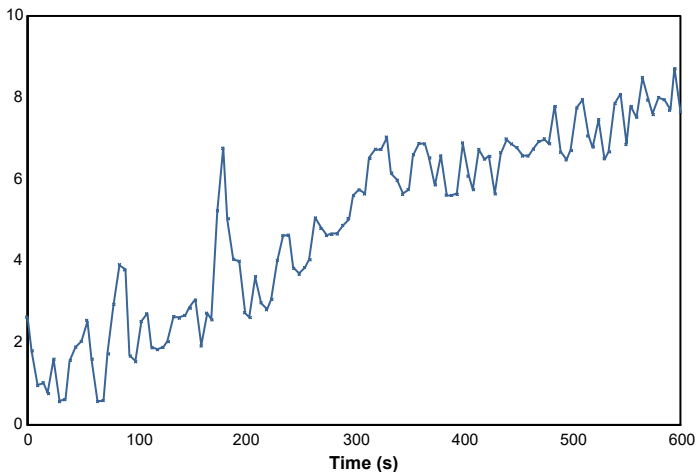
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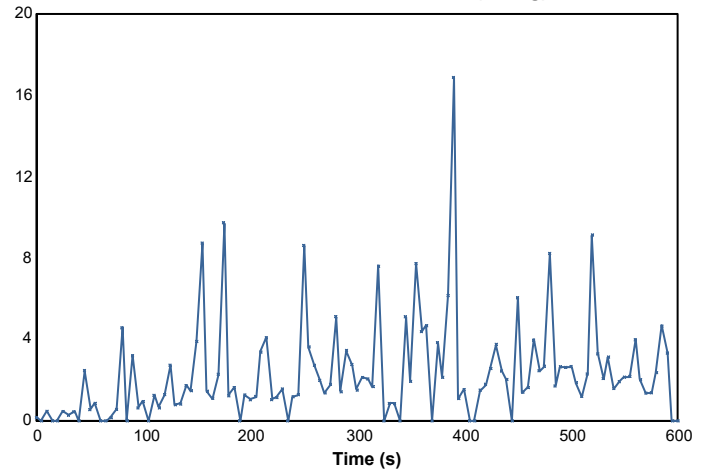
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Specimen : 3

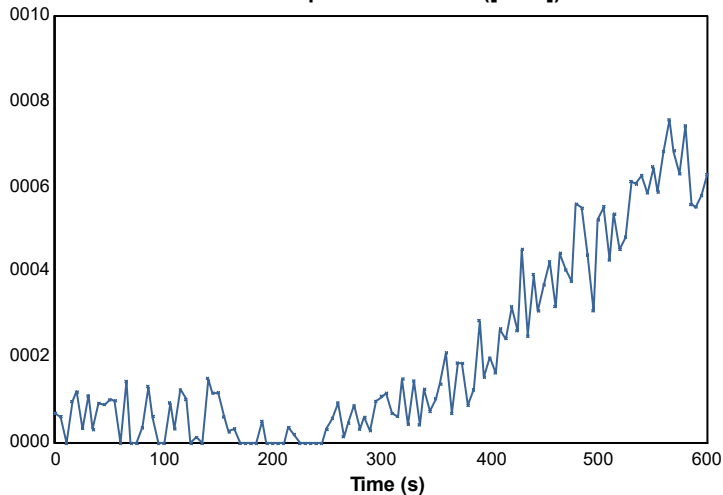
Heat release rate (kW/m²)



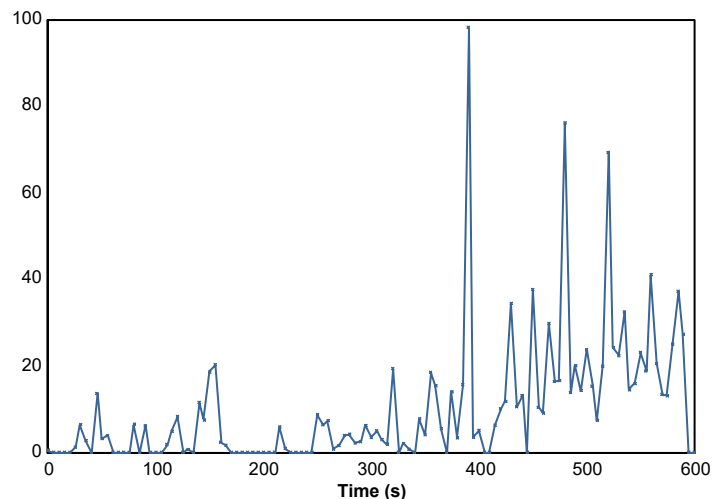
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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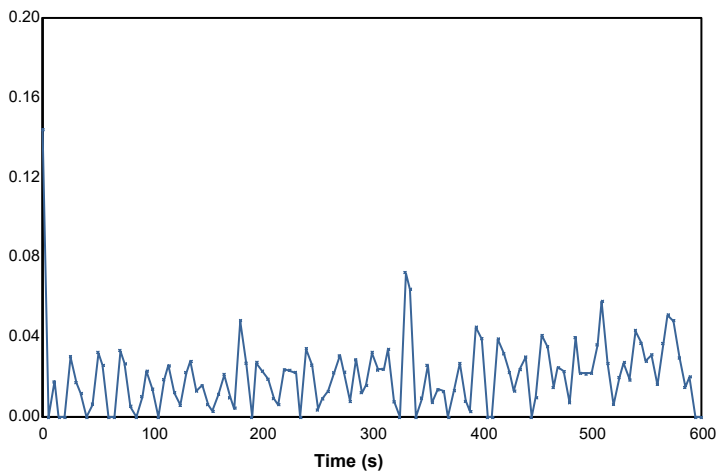
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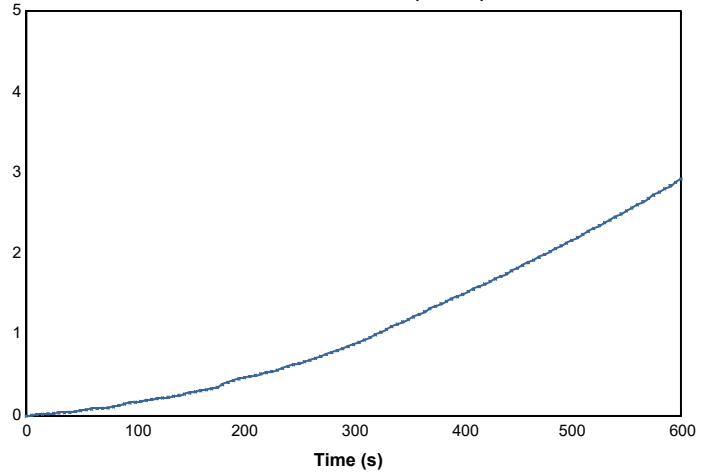
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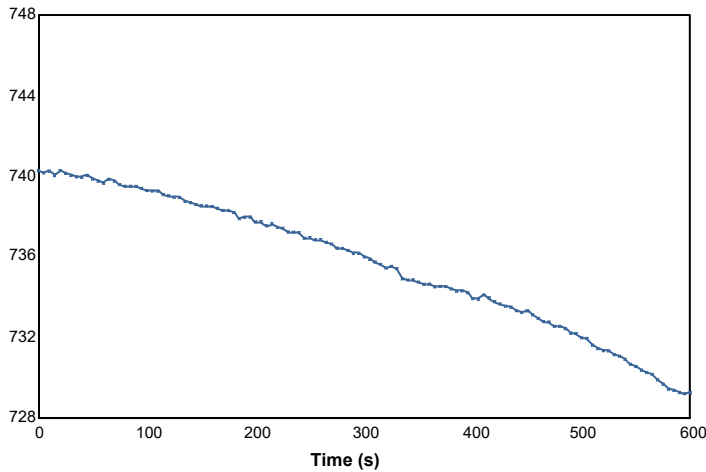
Mass loss rate (g/s)



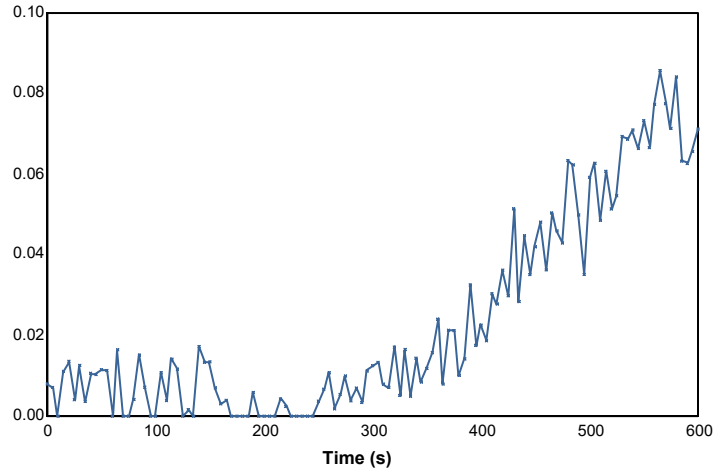
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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