

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 Fax (03) 9371 2499

TEST REPORT

Client : Alternative Surfaces
37-39 Northern Road
Heidelberg West VIC 3081

Test Number : 17-005768
Issue Date : 02/11/2017
Print Date : 6/11/2017

Sample Description Clients Ref : X-Bond Seamless Stone
Coated cement sheet
Colour : White
Nominal Composition : Stone-Tex & Latex Liquid polymer with waterbased penetrating sealer
Nominal Thickness : 2-4mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	27.3	27.8	30.8	28.6	kW/m ²
Average Specific extinction area	77.3	24.8	44.8	49.0	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	24	24	24	24	L/sec
Time to sustained flaming	131	72	83	95	sec
Test duration	736	712	724	724	sec
Peak heat release after ignition	71.4	60.0	63.0	64.8	kW/m ²
Average heat at 60 s	55.2	45.7	21.1	40.7	kW/m ²
Average heat at 180 s	48.0	44.0	43.3	45.1	kW/m ²
Average heat at 300 s	44.8	39.7	41.6	42.0	kW/m ²
Total heat released	16.5	17.9	19.8	18.1	MJ/m ²
Average effective heat of combustion	11.2	10.6	10.9	10.9	MJ/kg

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Initial thickness	9.0	9.0	9.0	9.0	mm
Initial mass	130.1	129.1	139	132.7	g
Mass remaining	113.8	112.6	120.2	115.5	g
Mass percentage pyrolysed	12.5	12.8	13.5	12.9	%
Mass loss	16.3	16.5	18.8	17.2	g
Average rate of mass loss	2.4	2.6	2.8	2.6	g/m ² .s

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 tested as assembled and supplied by client.

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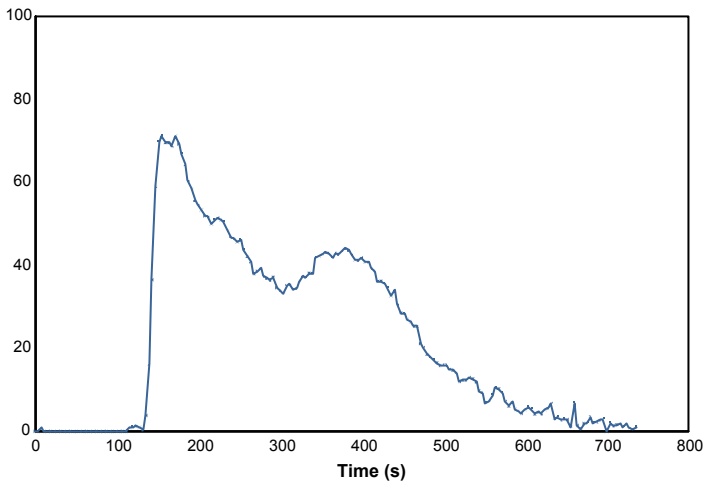
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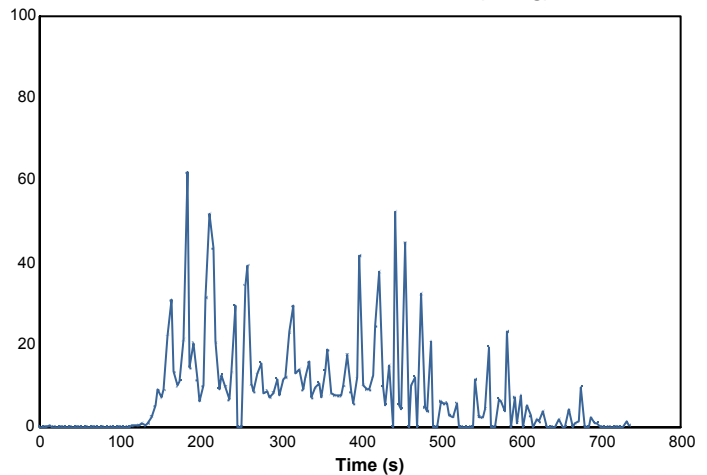
Test Number : 17-005768
Issue Date : 02/11/2017
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Specimen : 1

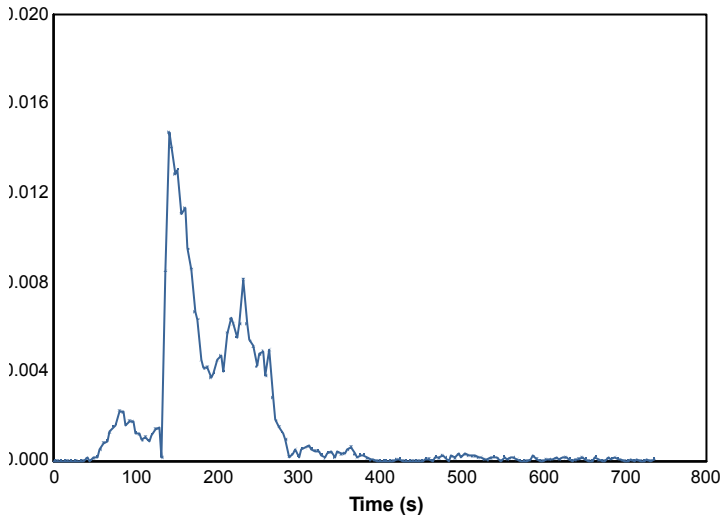
Heat release rate (kW/m²)



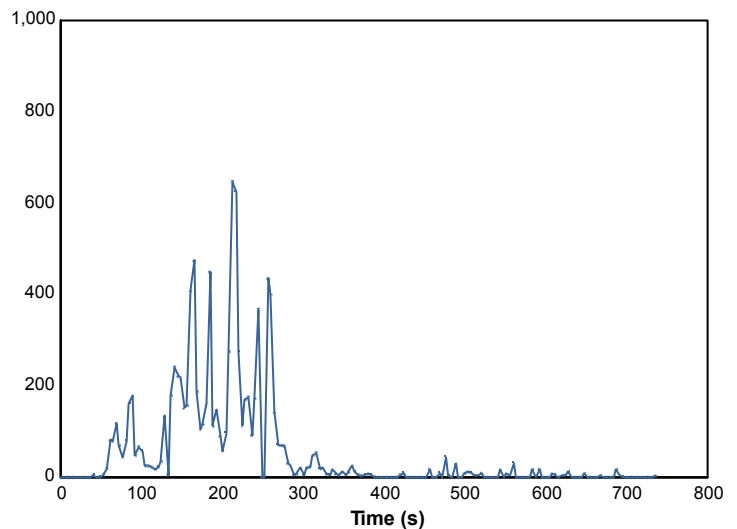
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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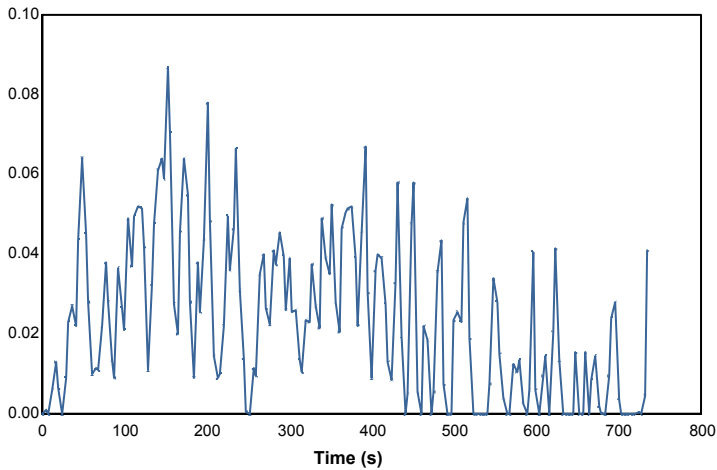
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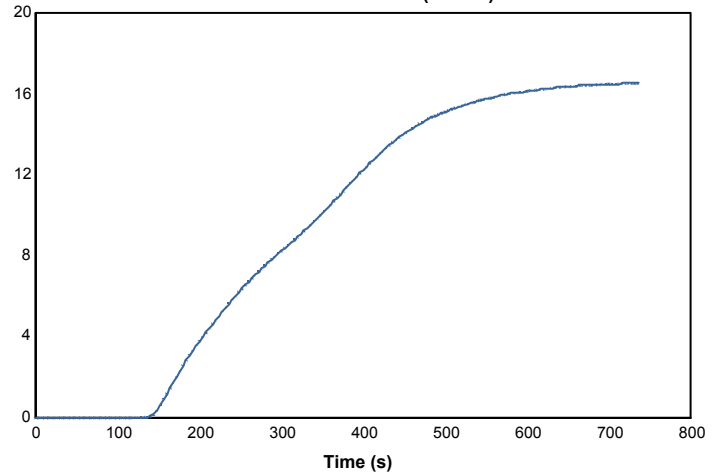
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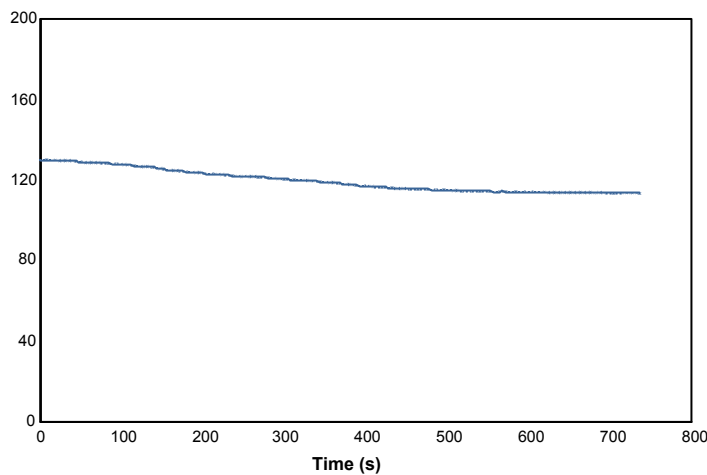
Mass loss rate (g/s)



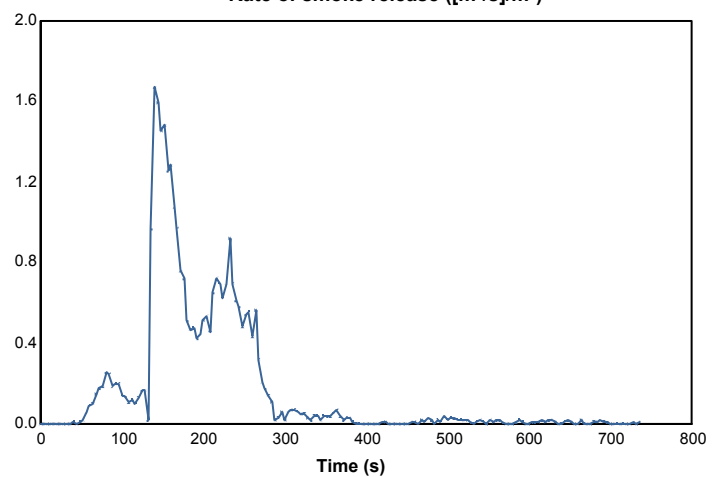
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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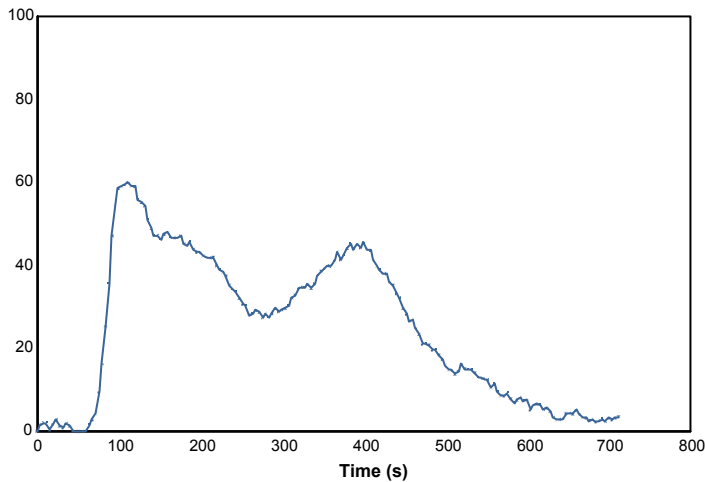
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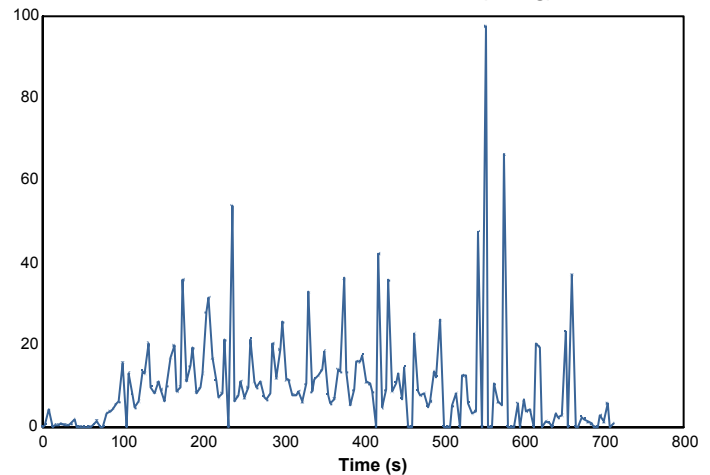
Test Number : 17-005768
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Specimen : 2

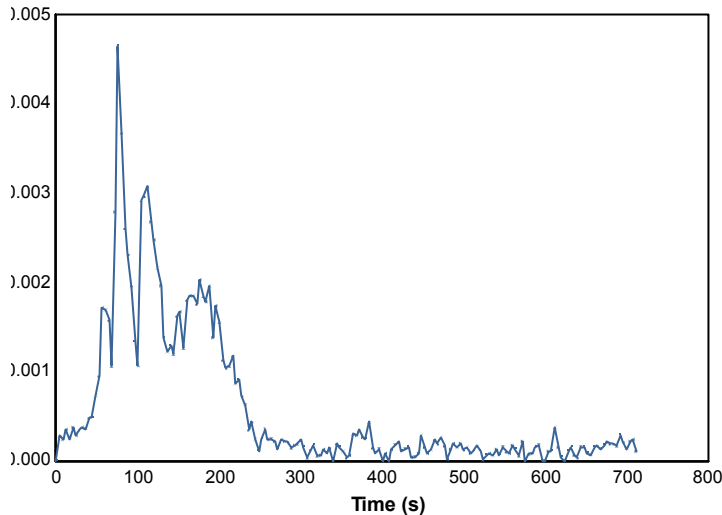
Heat release rate (kW/m²)



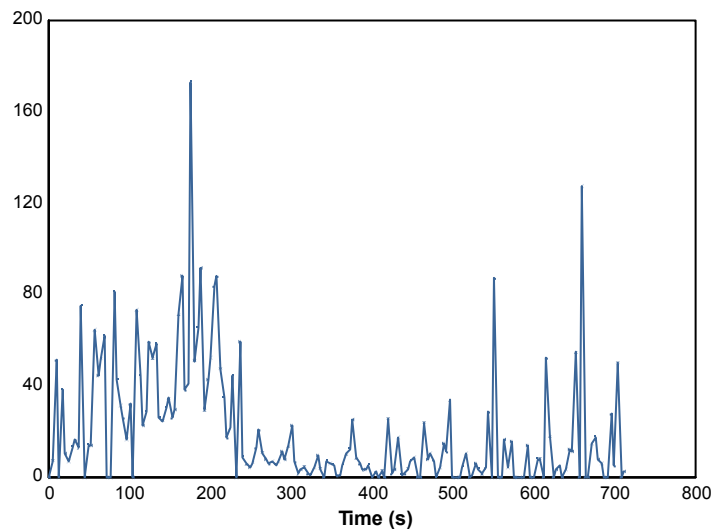
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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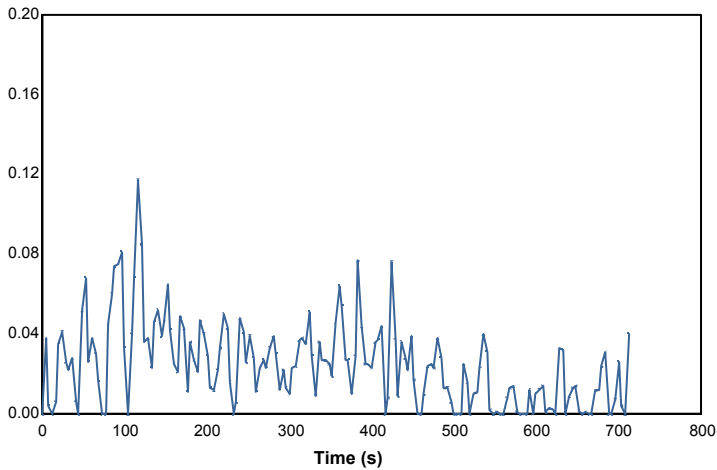
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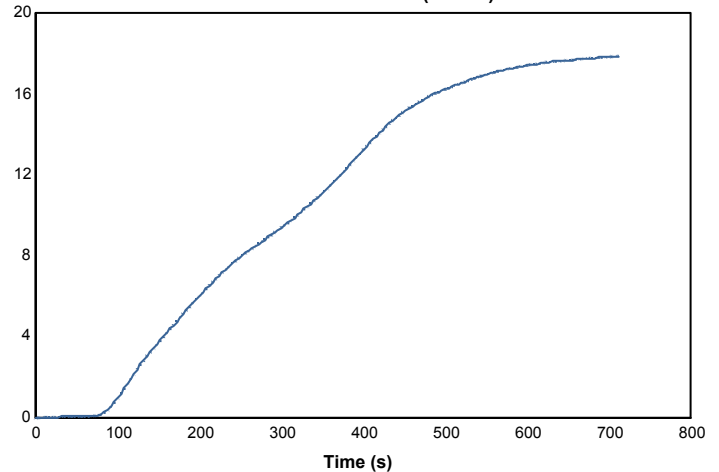
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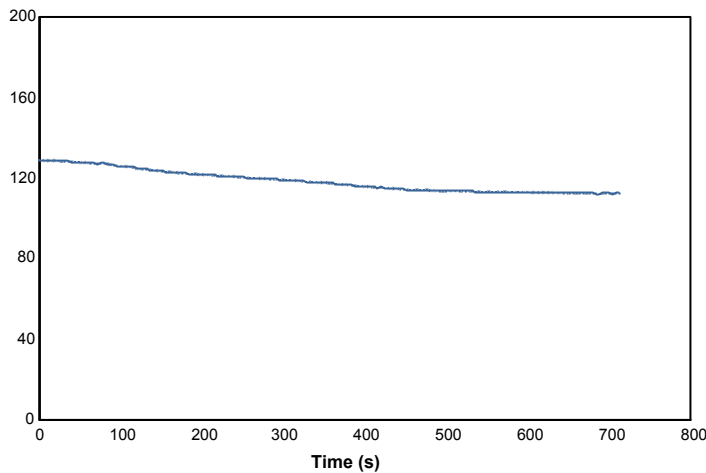
Mass loss rate (g/s)



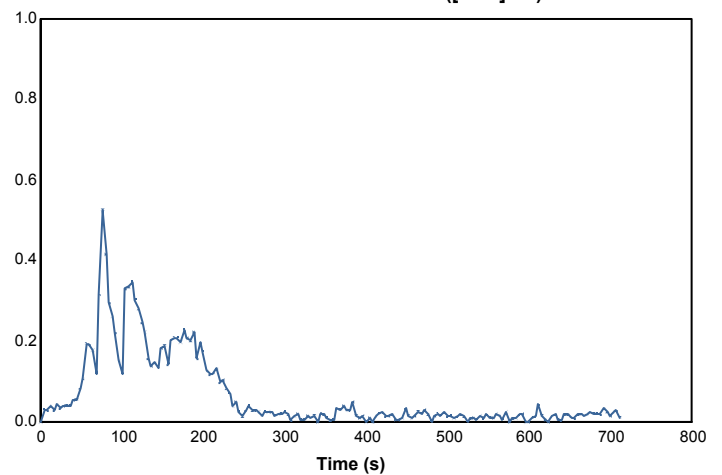
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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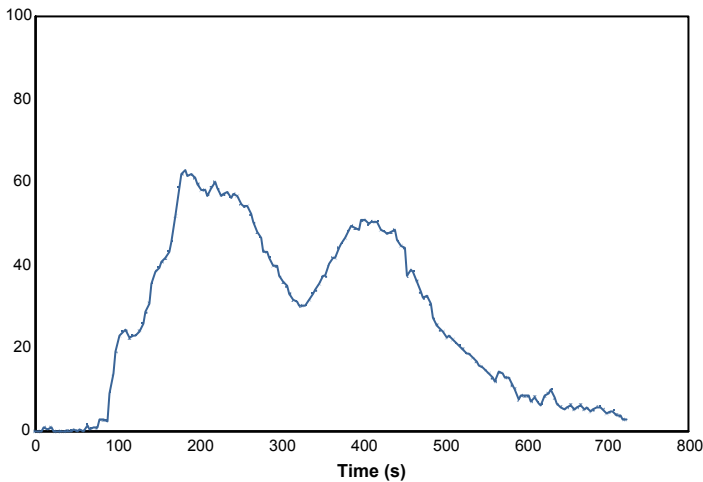
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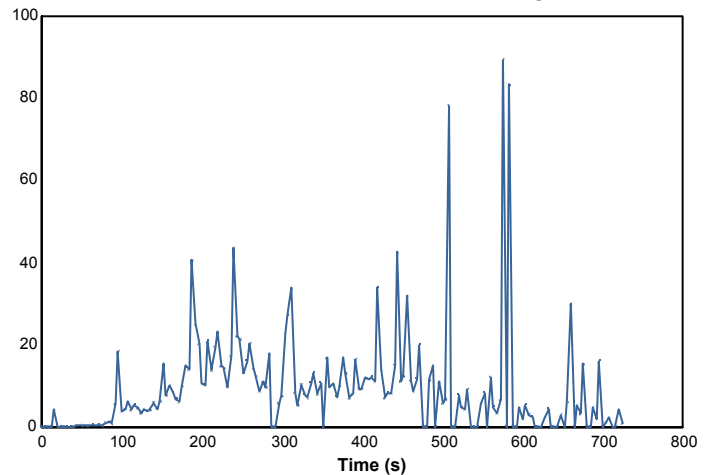
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Specimen : 3

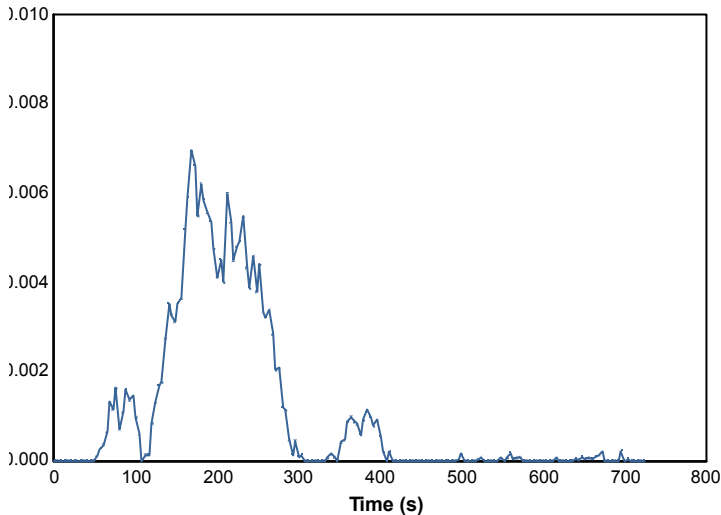
Heat release rate (kW/m²)



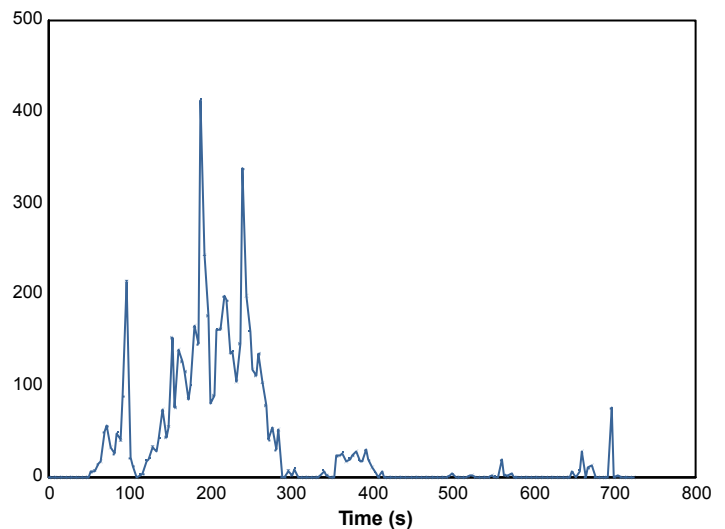
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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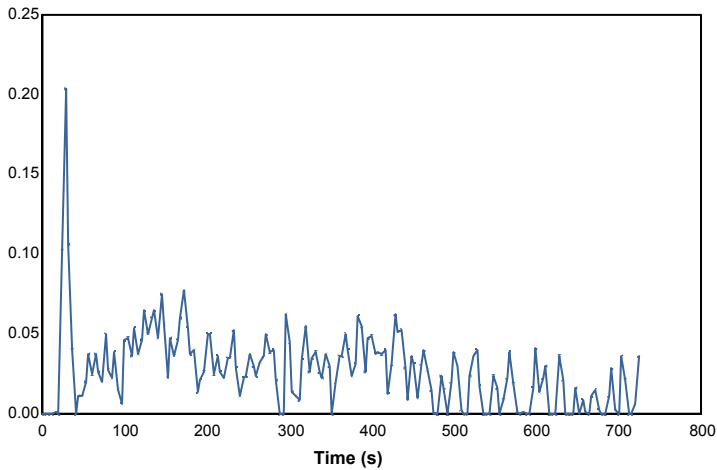
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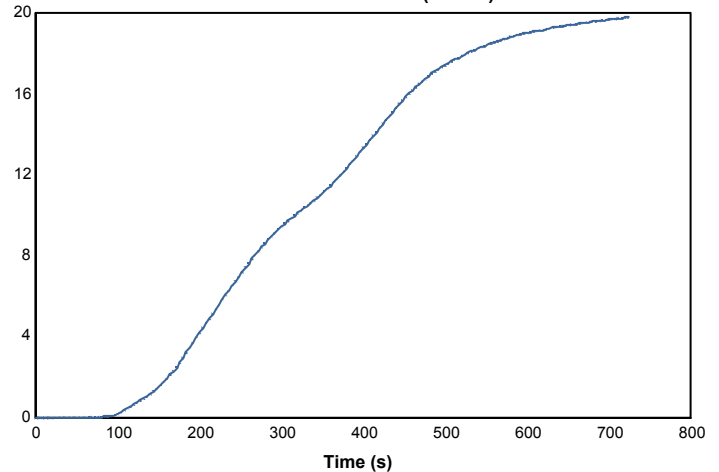
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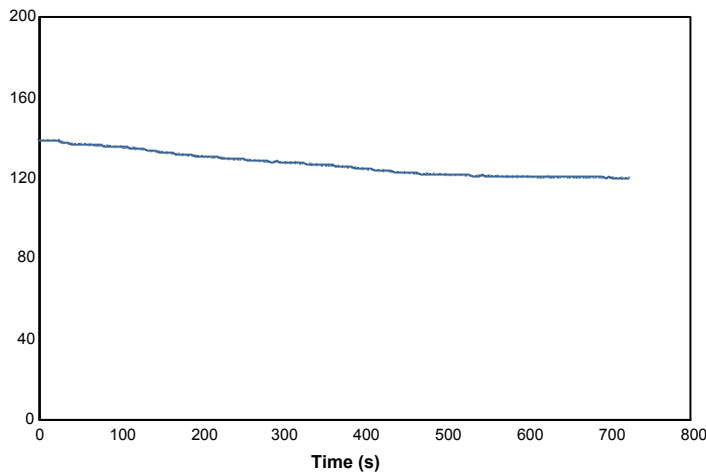
Mass loss rate (g/s)



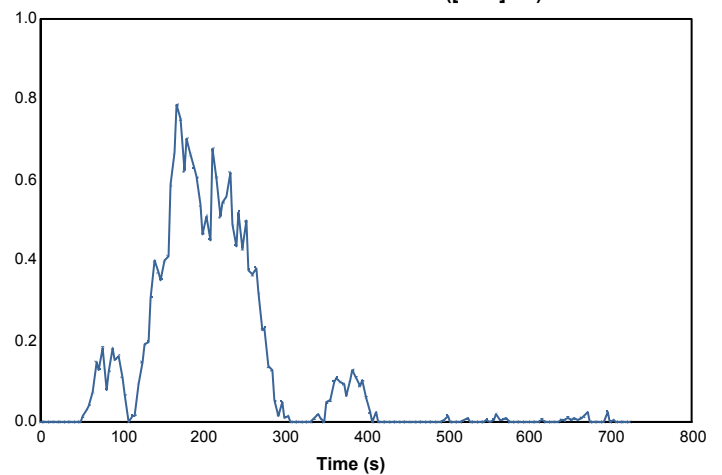
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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