

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 : 17-005770
Issue Date : 03/11/2017
Print Date : 6/11/2017

Sample Description Clients Ref : "Quartz Carpet"
Coated cement sheet
Colour : Brown
Nominal Composition : Quartz stones with an epoxy binder
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	58.2	54.6	59.5	57.4	kW/m ²
Average Specific extinction area	47.4	41.7	42.1	43.7	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	24	24	24	24	L/sec
Time to sustained flaming	69	71	64	68	sec
Test duration	600	613	535	583	sec
Peak heat release after ignition	109.0	104.7	109.1	107.6	kW/m ²
Average heat at 60 s	77.7	87.4	81.3	82.1	kW/m ²
Average heat at 180 s	77.4	76.2	83.2	78.9	kW/m ²
Average heat at 300 s	83.5	80.4	82.4	82.1	kW/m ²
Total heat released	30.9	29.7	28.1	29.6	MJ/m ²
Average effective heat of combustion	15.3	15.1	15.0	15.2	MJ/kg

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Initial thickness	11.0	11.0	11.0	11.0	mm
Initial mass	168.8	174	154.4	165.7	g
Mass remaining	150.8	156.0	137.6	148.1	g
Mass percentage pyrolysed	10.7	10.3	10.9	10.6	%
Mass loss	18.0	18.0	16.8	17.6	g
Average rate of mass loss	3.8	3.6	3.9	3.8	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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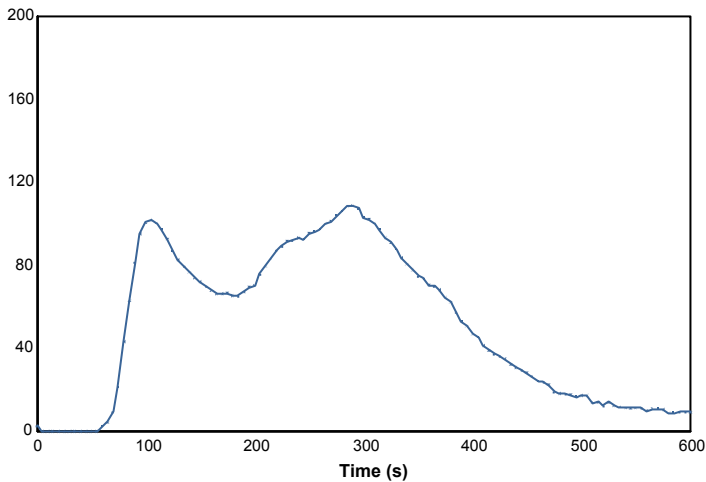
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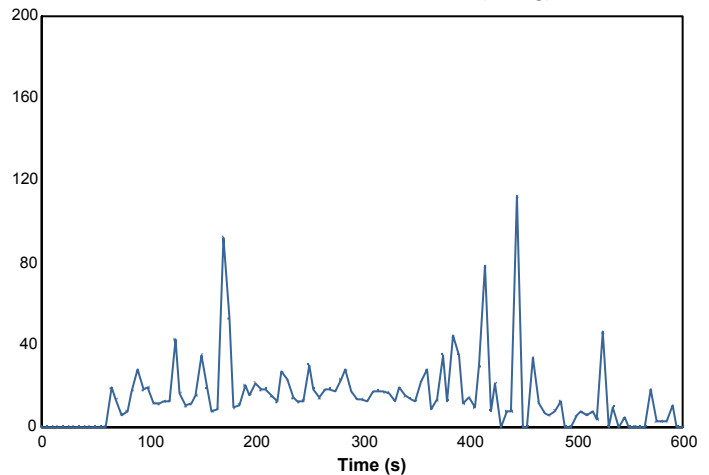
Test Number : 17-005770
Issue Date : 03/11/2017
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Specimen : 1

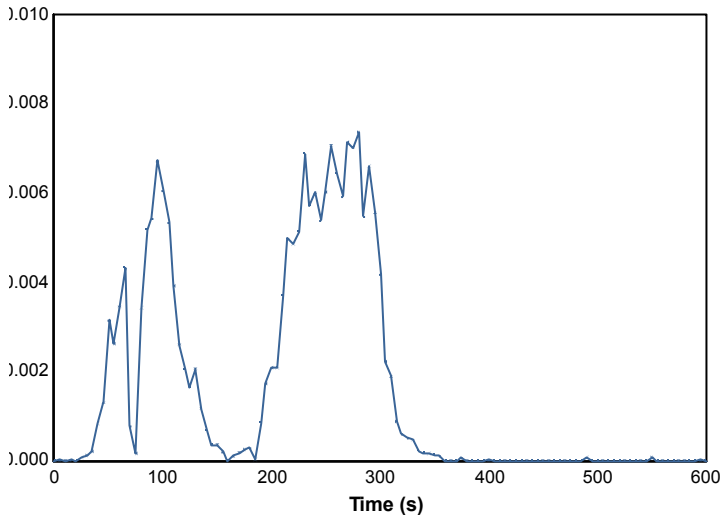
Heat release rate (kW/m²)



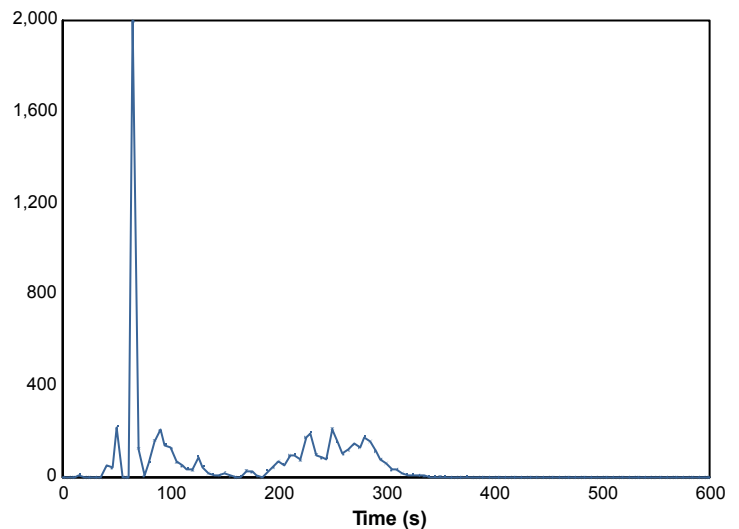
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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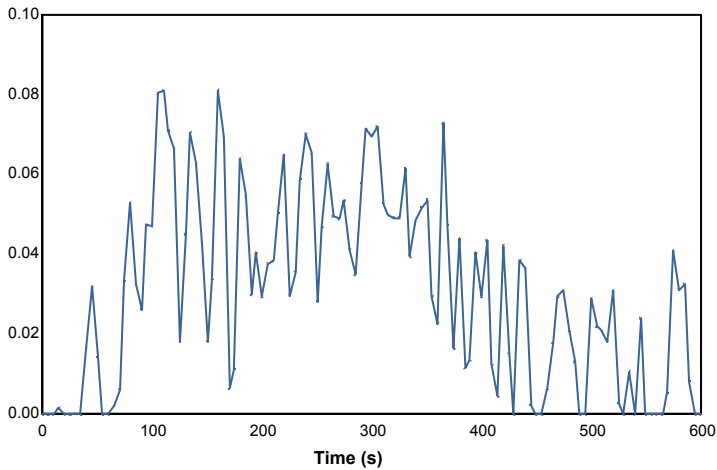
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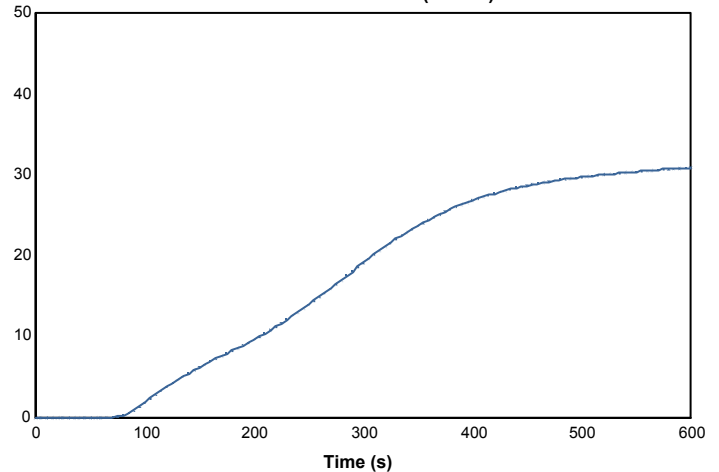
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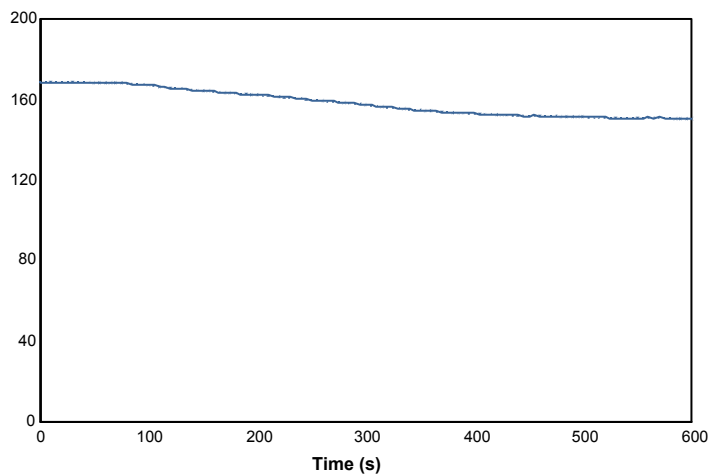
Mass loss rate (g/s)



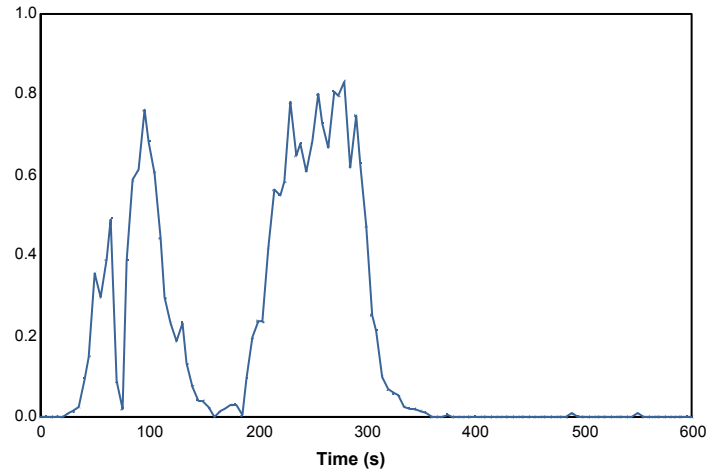
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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Page 4 of 8

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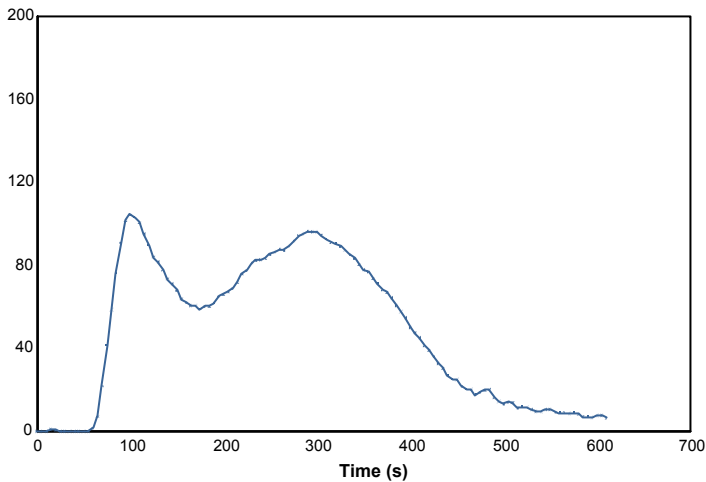
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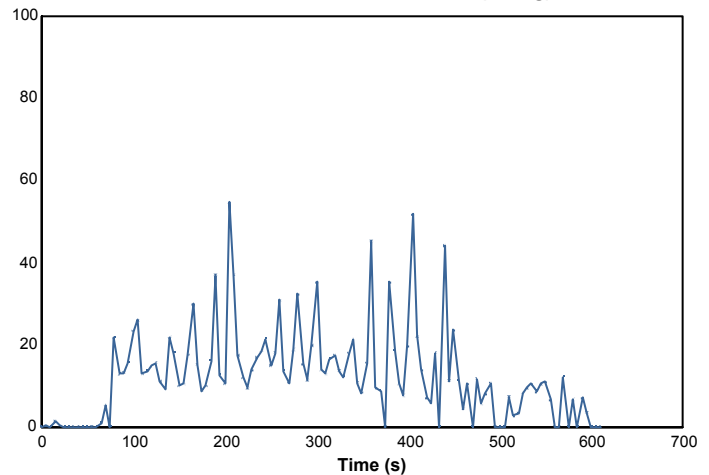
Test Number : 17-005770
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Specimen : 2

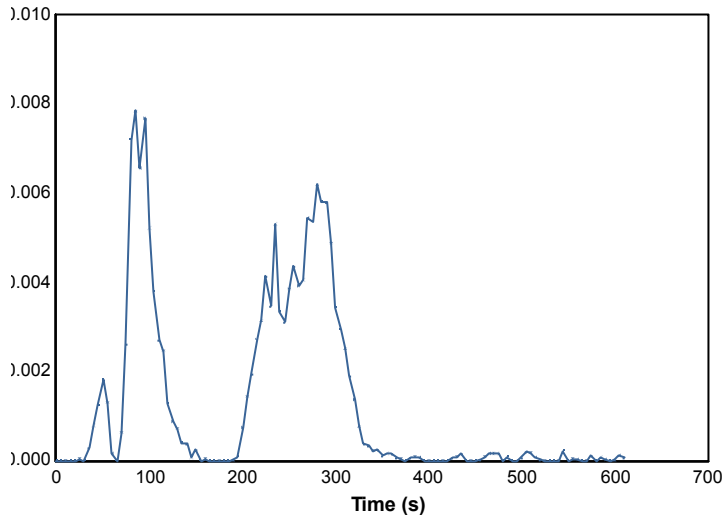
Heat release rate (kW/m²)



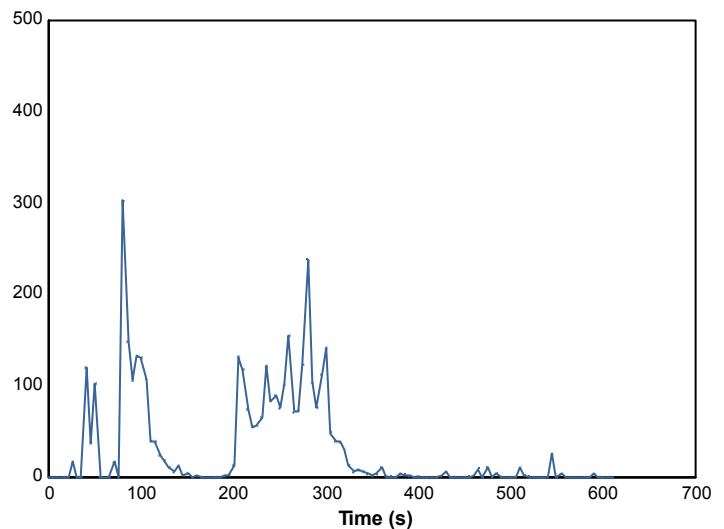
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Page 5 of 8

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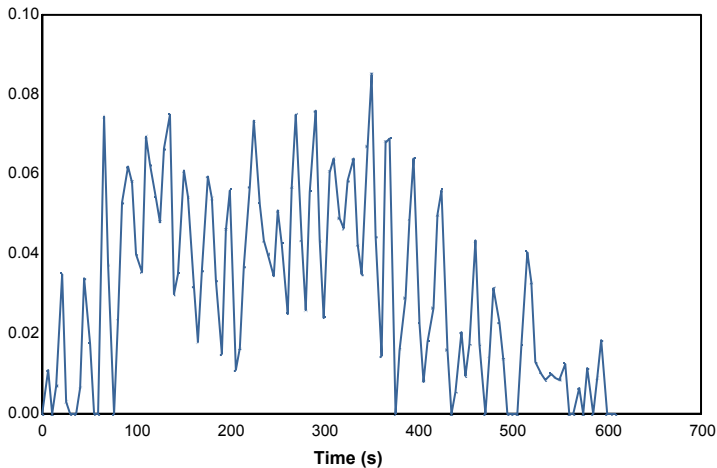
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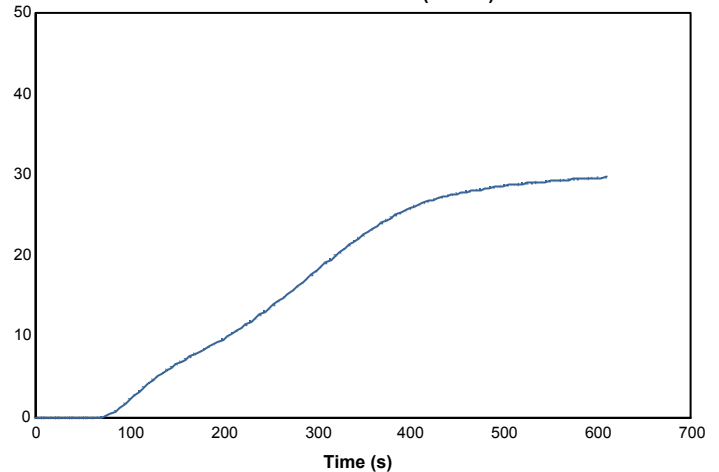
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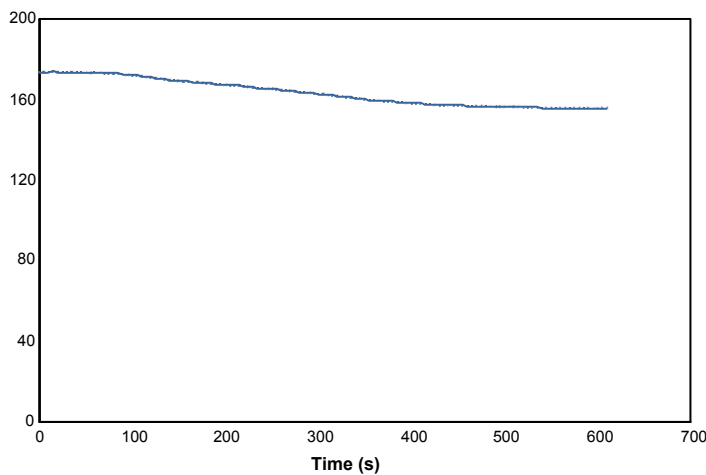
Mass loss rate (g/s)



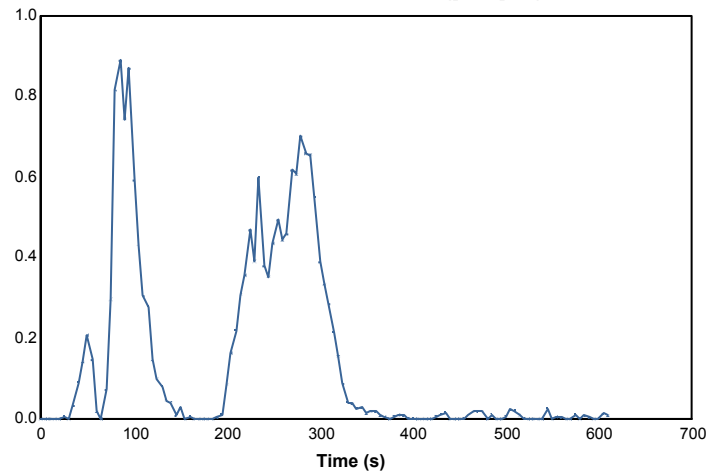
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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Page 6 of 8

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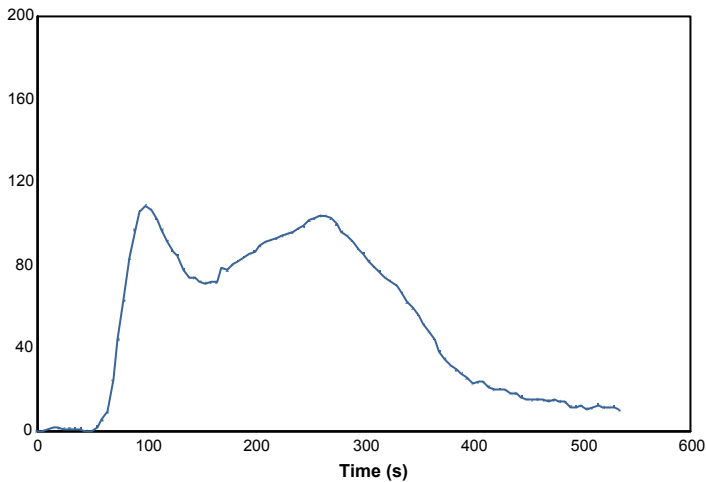
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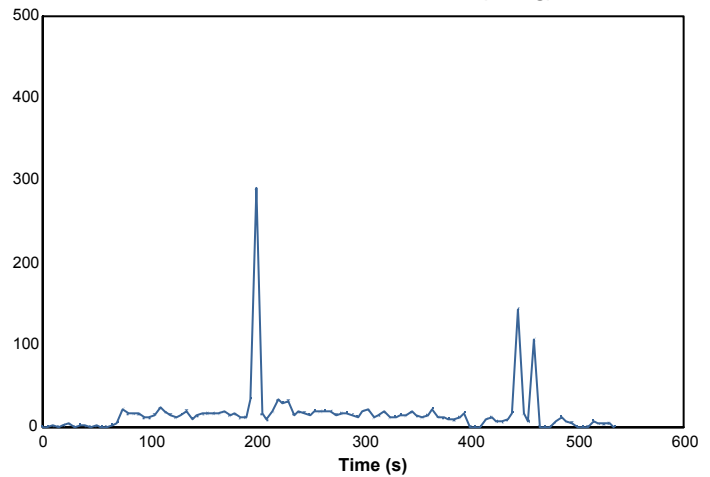
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Specimen : 3

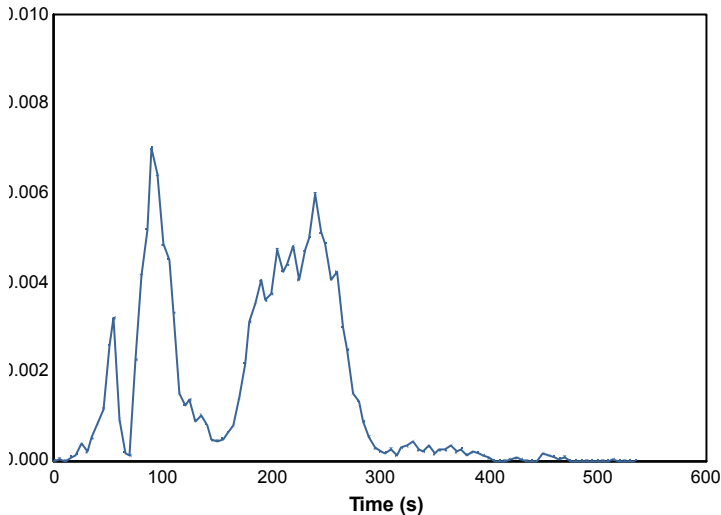
Heat release rate (kW/m²)



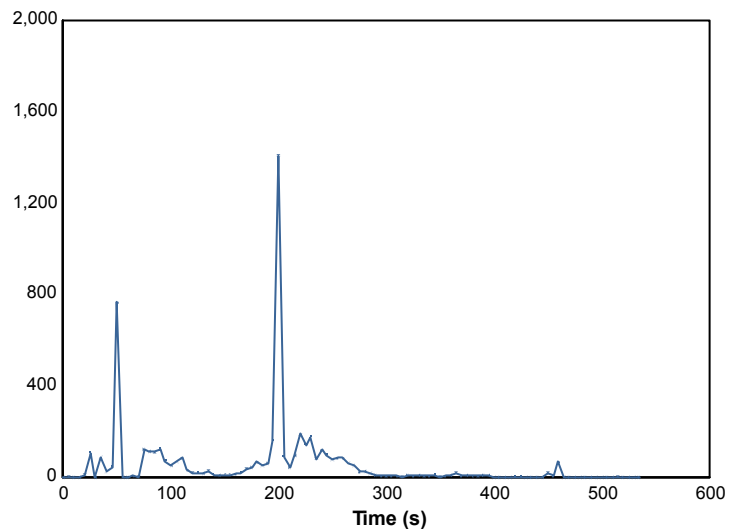
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Page 7 of 8

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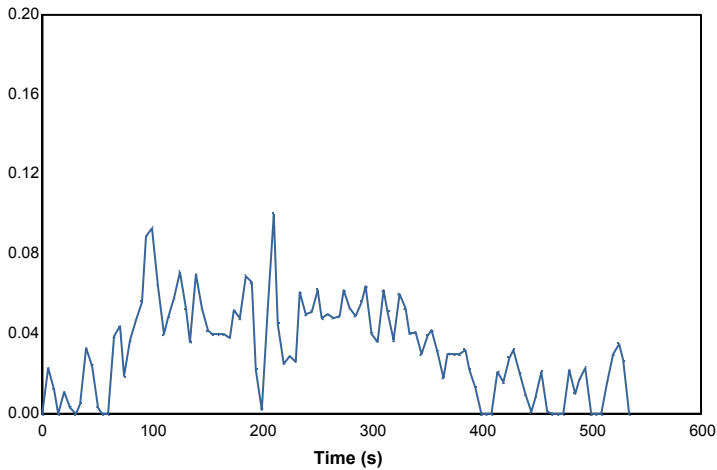
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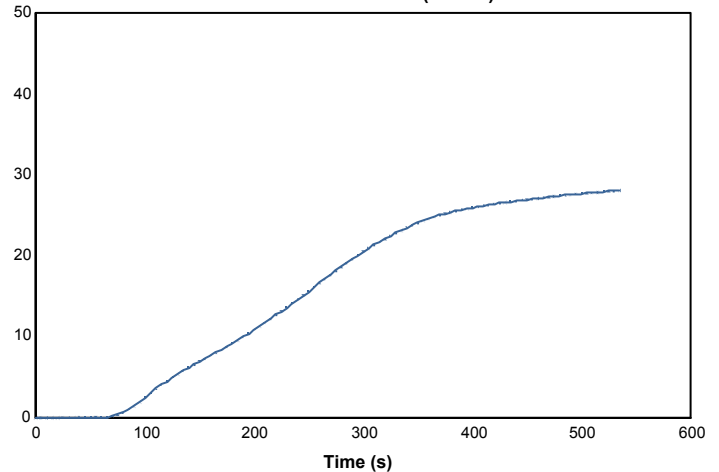
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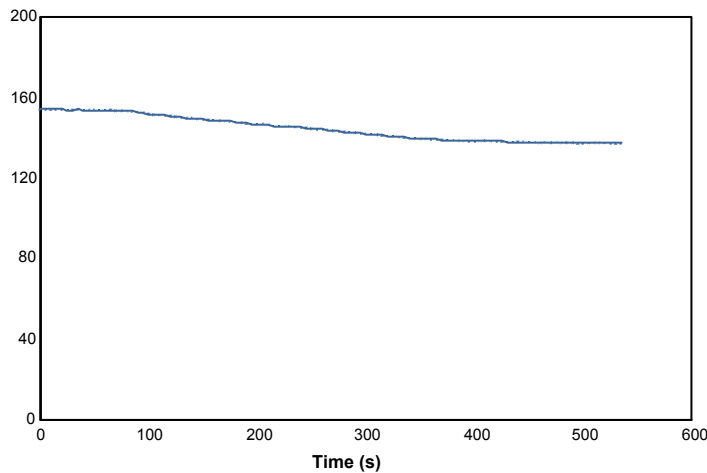
Mass loss rate (g/s)



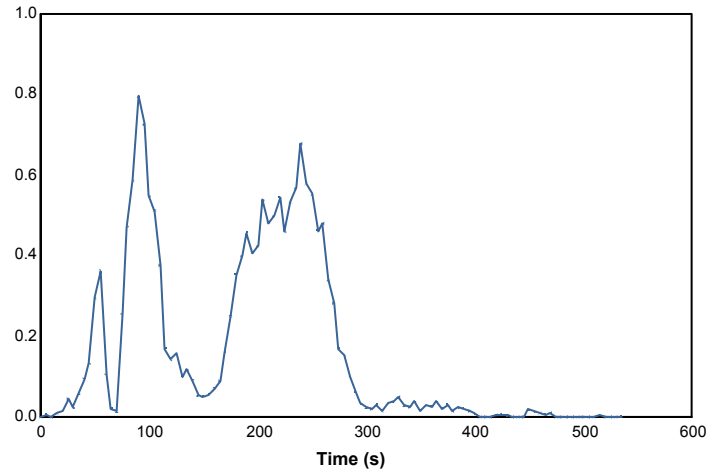
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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