

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 : SPS Roofing and Building Limited
16A Parkhead Place
Albany, Auckland New Zealand
New Zealand

Test Number : 17-005919
Issue Date : 15/11/2017
Print Date : 20/11/2017

Sample Description Clients Ref : "Frontelk"
Rigid textured panel
Colour : Beige
End Use : Cladding
Nominal Composition : Porcelain
Nominal Mass per Unit Area/Density : Approx. 28kg/m²
Nominal Thickness : Approx. 18mm

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)

	Specimen				Mean	
	1	2	3			
Average Heat Release Rate	fti	fti	fti	fti	kW/m ²	
Average Specific extinction area	49.5	7.4	136.1	64.3	m ² /kg	

Test orientation : Horizontal

	Specimen				Mean	
	1	2	3			
Irradiance	50	50	50	50	kW/m ²	
Exhaust flow rate	24	24	24	24	L/sec	
Time to sustained flaming	fti	fti	fti	fti	sec	
Test duration	900	900	900	900	sec	

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Initial thickness	19.5	19.5	19.5	19.5	mm
Initial mass	286.2	287.7	297.7	290.5	g
Mass remaining	285.8	285.9	297.0	289.6	g
Mass percentage pyrolysed	0.1	0.6	0.2	0.3	%
Mass loss	0.4	1.8	0.7	1.0	g
Average rate of mass loss	0.1	0.2	0.1	0.1	g/m ² .s
Average Heat Release Rate(fti)	2.5	0.2	3.9	2.2	kW/m ²
Peak Heat Release Rate(fti)	6.6	1.8	7.8	5.4	kW/m ²

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.

Note: All calculations are based on data measured for 15 minutes from start of test.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Note : The sample has a heat release rate of less than 50 kW/m². In accordance with New Zealand Building Code verification Method C/VM2 Appendix A this product shall be classified as Group 1.

If a different classification group is obtained for different specimens tested, then the highest (worst) classification for any specimen must be taken as the final classification for that material.

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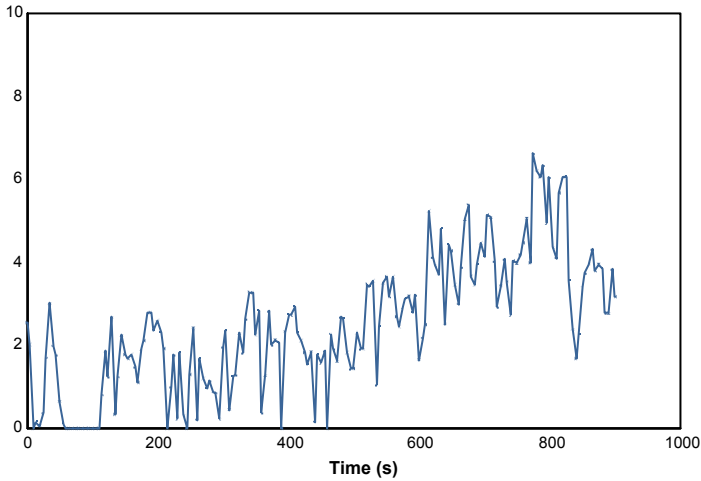
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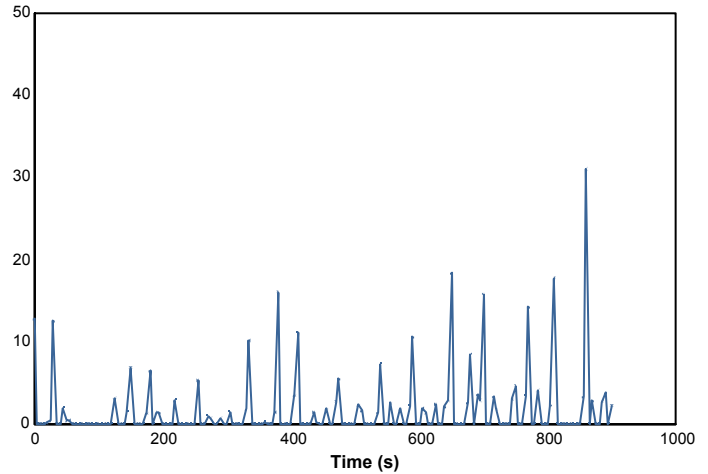
Test Number : 17-005919
Issue Date : 15/11/2017
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Specimen : 1

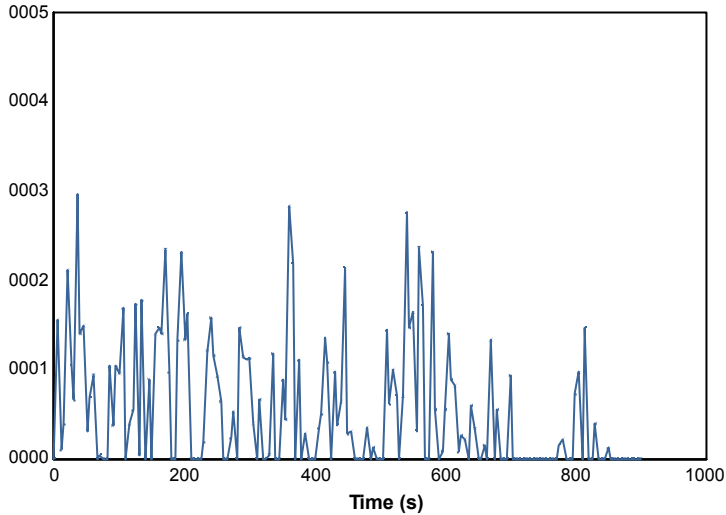
Heat release rate (kW/m²)



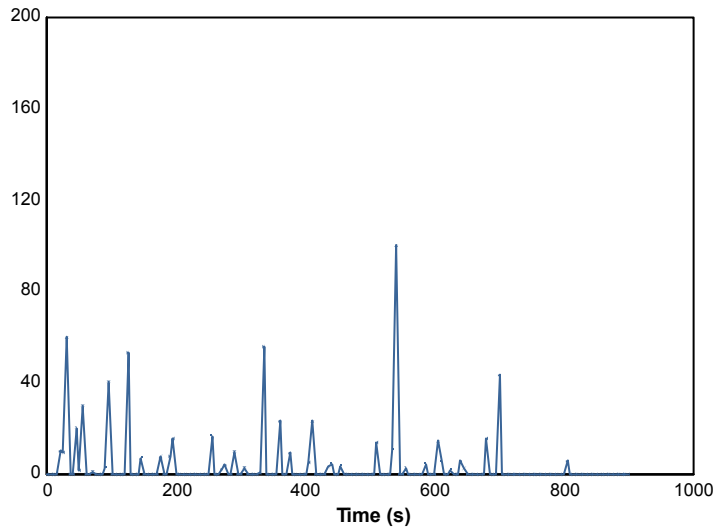
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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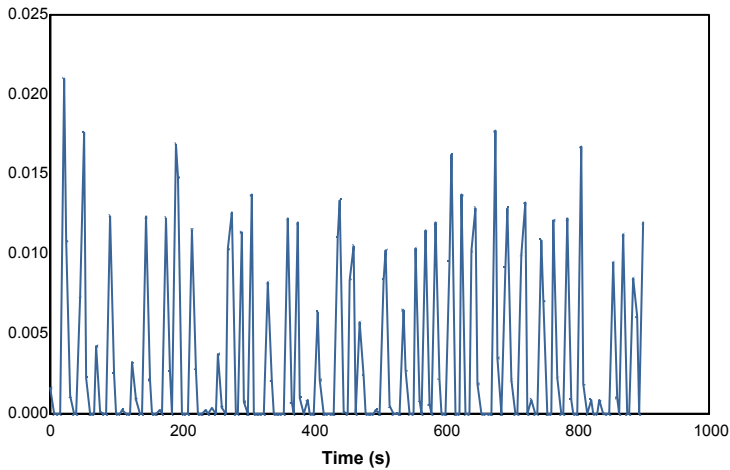
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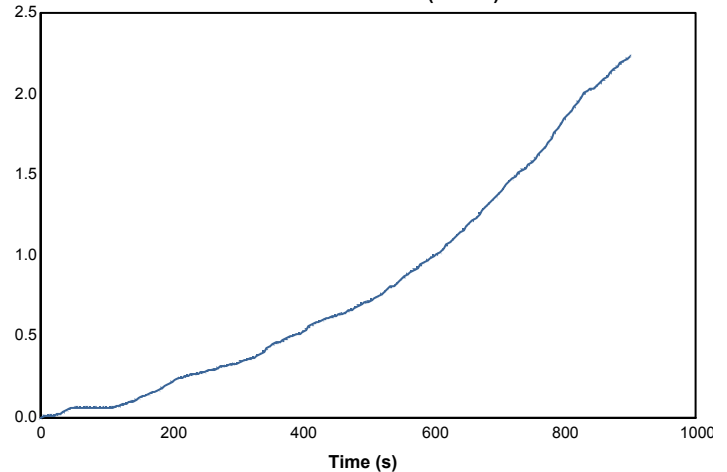
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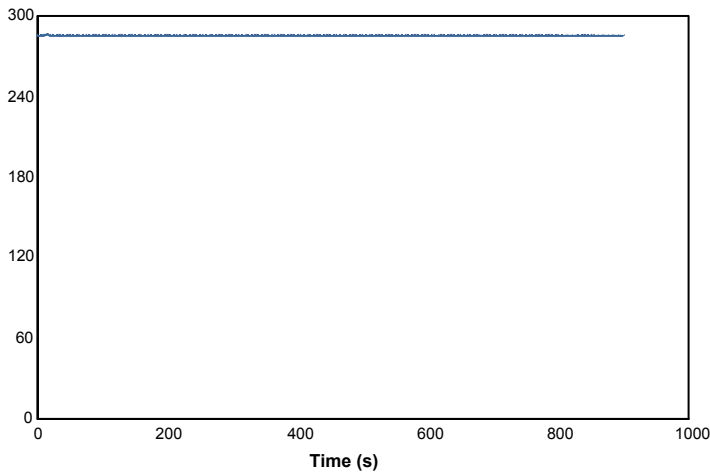
Mass loss rate (g/s)



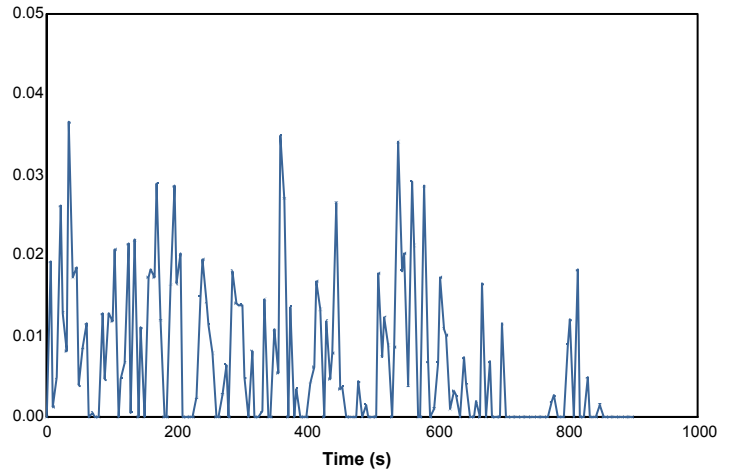
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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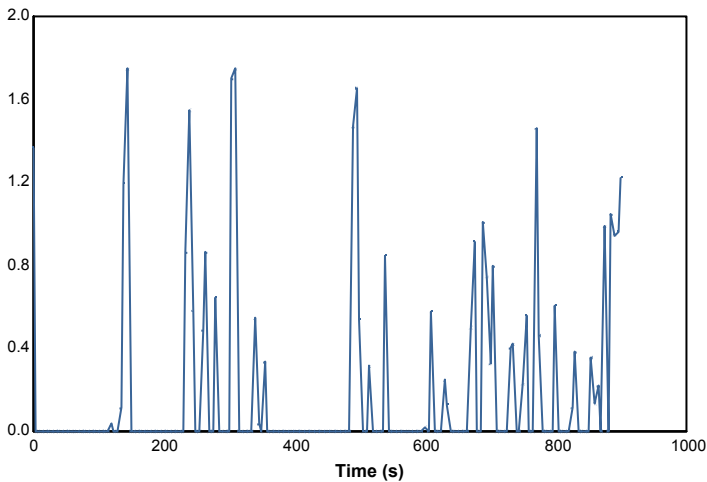
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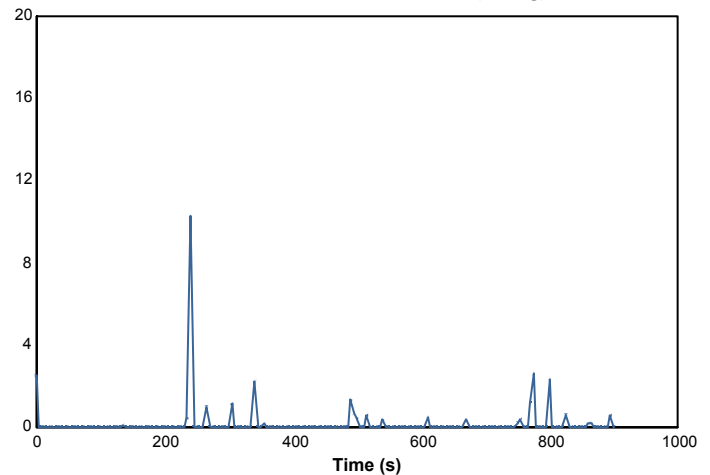
Test Number : 17-005919
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Specimen : 2

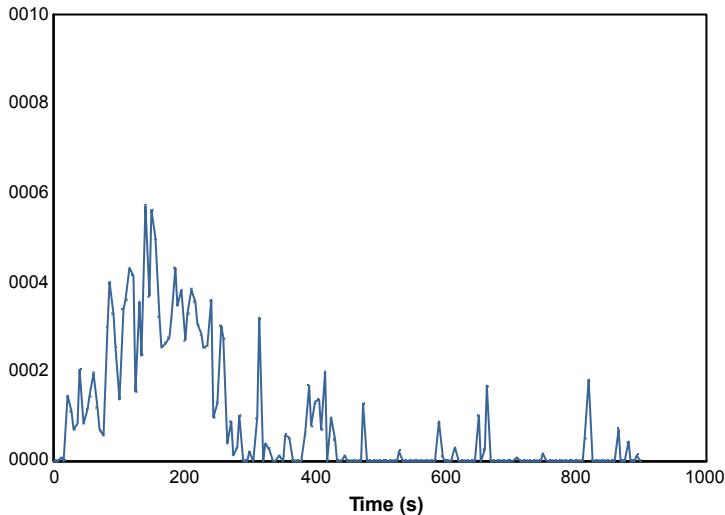
Heat release rate (kW/m²)



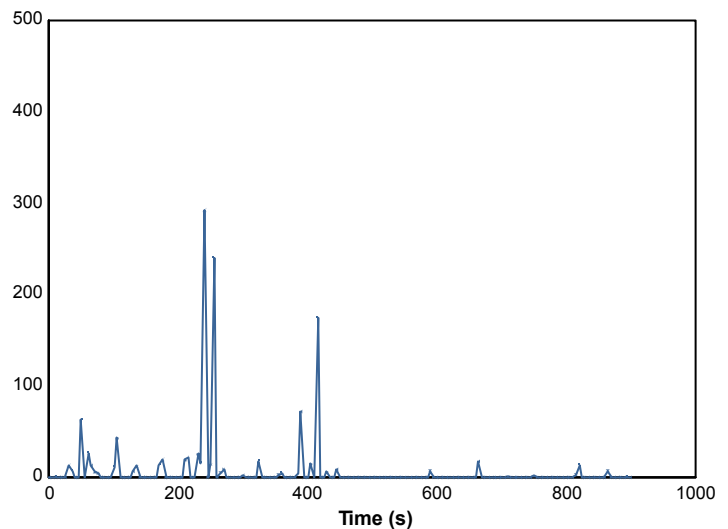
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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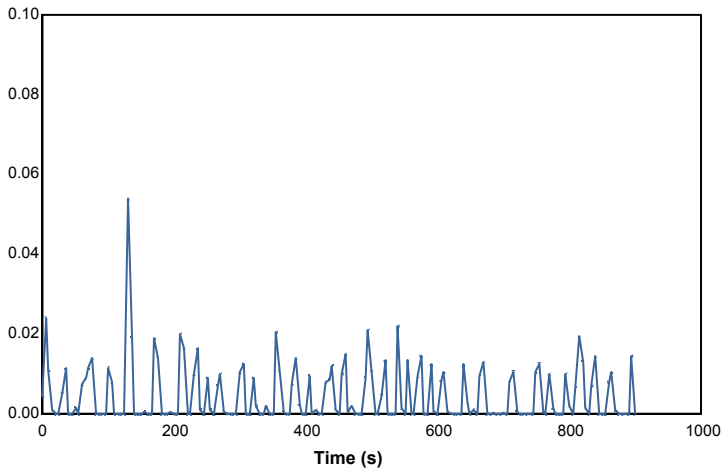
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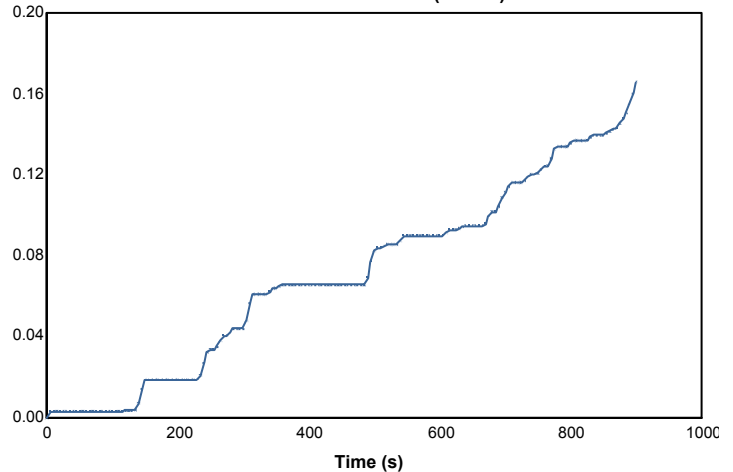
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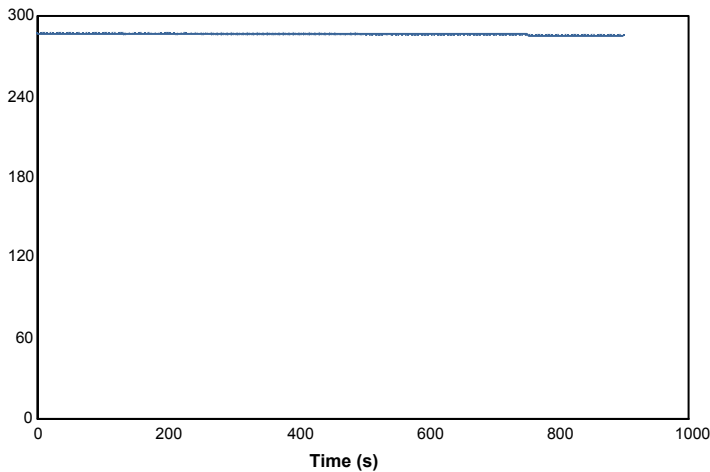
Mass loss rate (g/s)



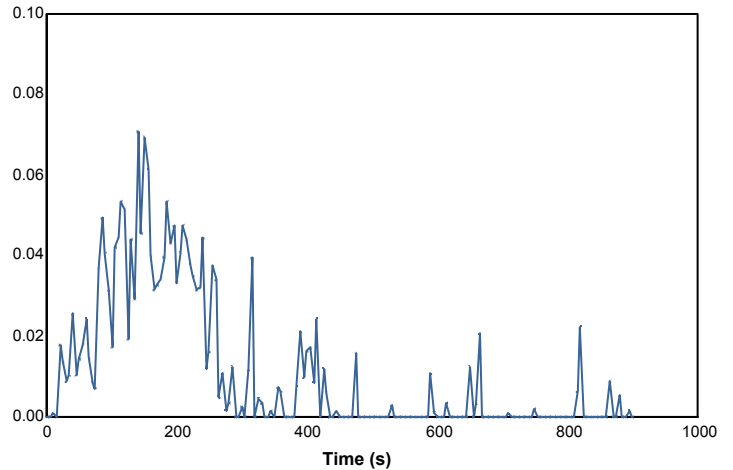
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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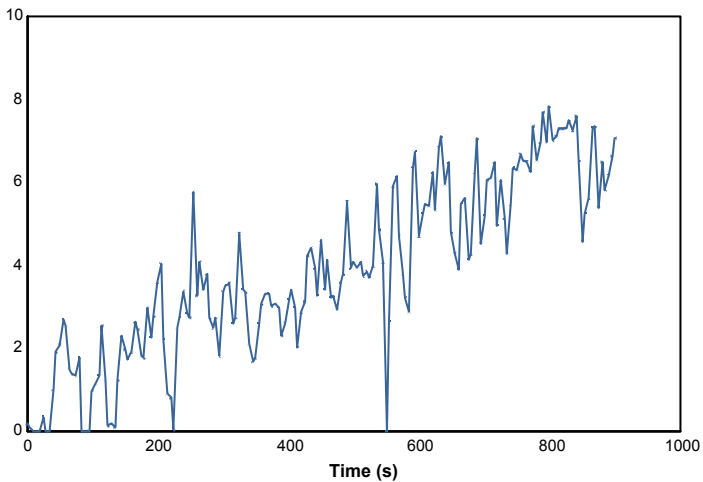
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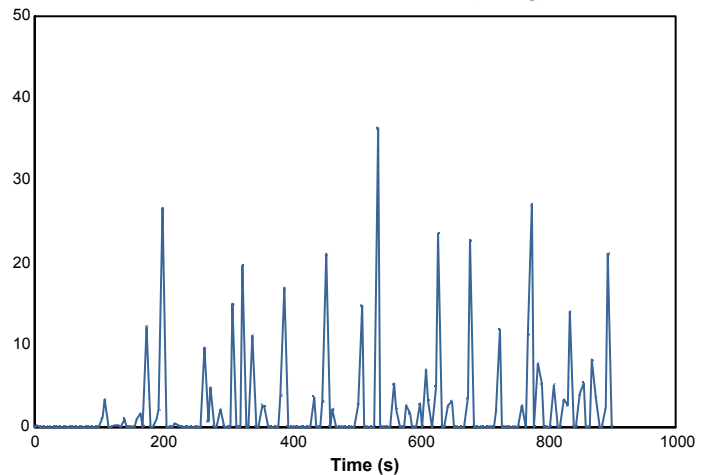
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Specimen : 3

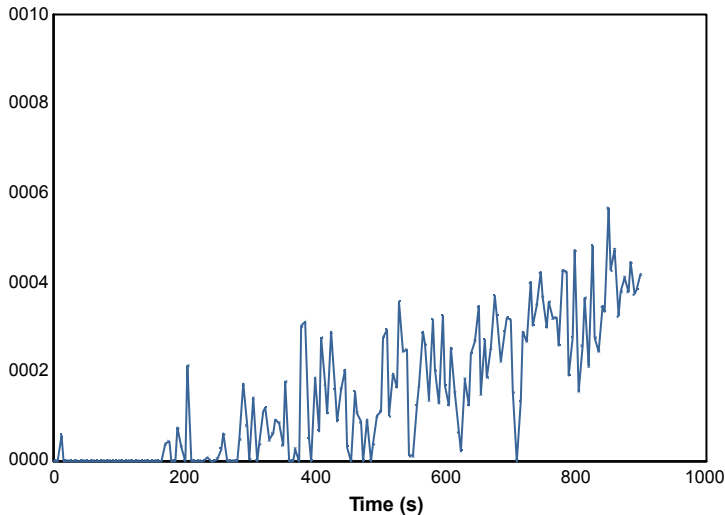
Heat release rate (kW/m²)



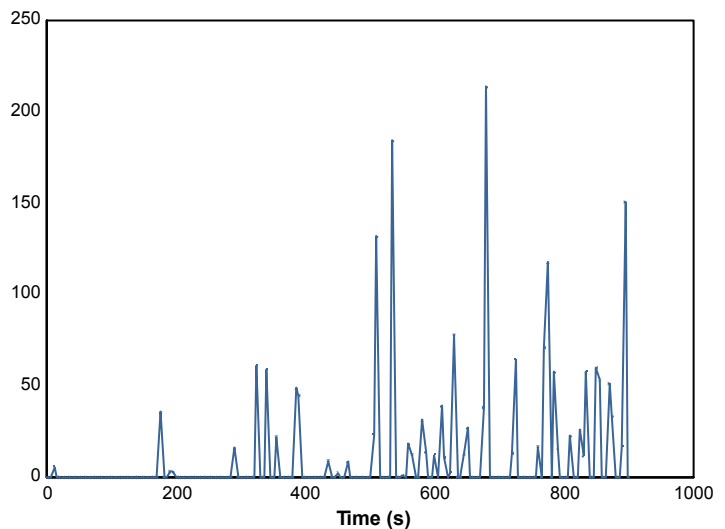
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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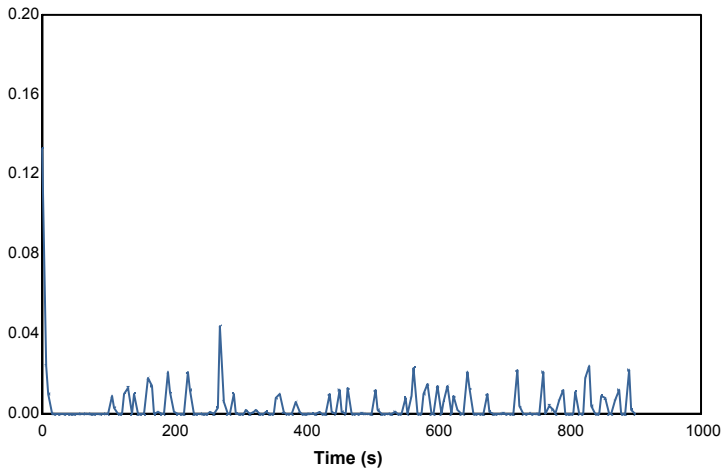
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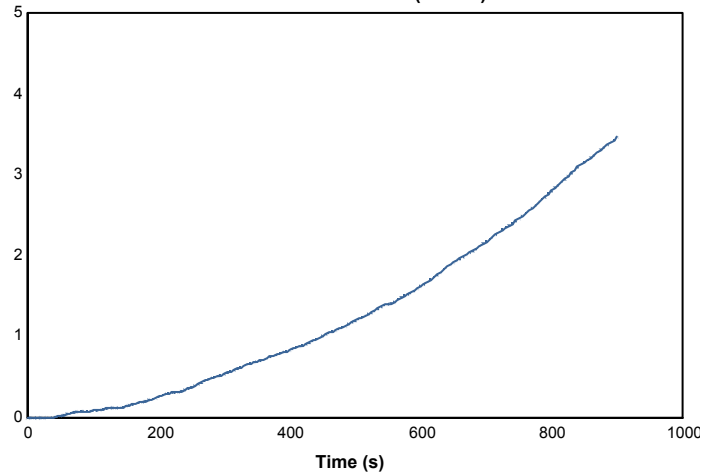
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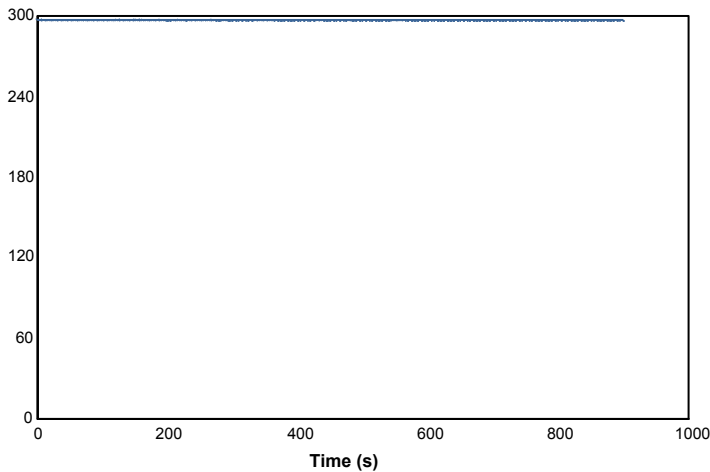
Mass loss rate (g/s)



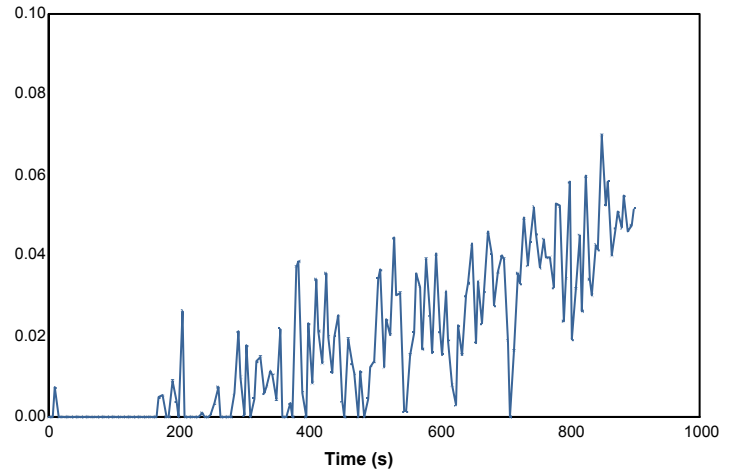
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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