

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

Group Number Assessment

(In accordance with New Zealand Building Code Verification Method C/VMA Appendix A)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 17-004364
Issue Date : 11/09/2017
Print Date : 11/09/2017

Sponsor Product Clients Ref : "Plywood"
Plywood laminate
Nominal Composition : Pine A/A, 7ply, A-Bond, non-structural
Nominal Mass per Unit Area/Density : 500g/cm³
Nominal Thickness : 18mm

Product Group Number Classification : 3
Average Specific Extinction Area : 43.9 m²/kg



Chris Campbell
Client Relations Manager

21579

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TEST REPORT

Client : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 17-004364
Issue Date : 11/09/2017
Print Date : 11/09/2017
Order Number : 2138

Sample Description Clients Ref : "Plywood"
Plywood laminate
Nominal Composition : Pine A/A, 7ply, A-Bond, non-structural
Nominal Mass per Unit Area/Density : 500g/cm³
Nominal Thickness : 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				
	1	2	3	Mean	
Average Heat Release Rate	65.7	64.0	59.8	63.1	kW/m ²
Average Specific extinction area	48.4	46.8	36.6	43.9	m ² /kg

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	25	22	26	24	sec
Test duration	1825	1822	1826	1824	sec
Peak heat release after ignition	220.9	203.5	183.0	202.5	kW/m ²
Average heat at 60 s	126.0	131.6	140.3	132.6	kW/m ²
Average heat at 180 s	110.5	124.2	130.0	121.6	kW/m ²
Average heat at 300 s	103.8	107.7	113.1	108.2	kW/m ²
Total heat released	118.3	115.1	107.6	113.7	MJ/m ²
Average effective heat of combustion	12.8	13.2	12.4	12.8	MJ/kg

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APPROVED SIGNATORY

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MANAGING DIRECTOR

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Initial thickness	18.0	18.0	18.0	18.0	mm
Initial mass	89.3	83.9	82.3	85.2	g
Mass remaining	14.3	12.2	11.6	12.7	g
Mass percentage pyrolysed	84.0	85.5	85.9	85.1	%
Mass loss	75.0	71.7	70.7	72.5	g
Average rate of mass loss	5.1	4.9	4.8	4.9	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.

Note: All calculations are based on ignition + 30 minutes.

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

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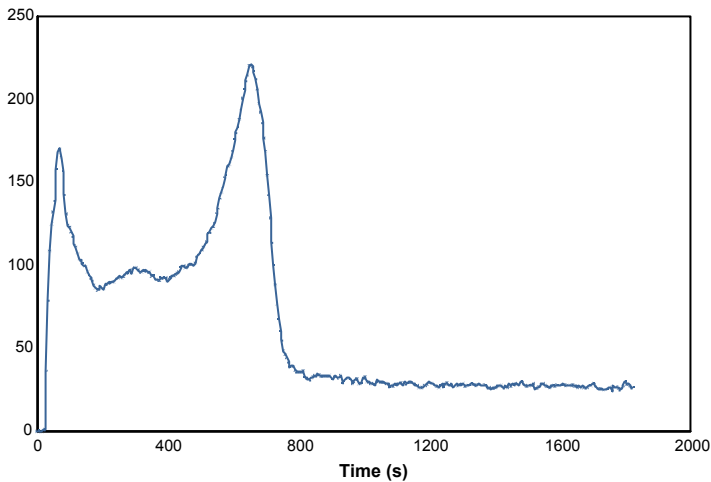
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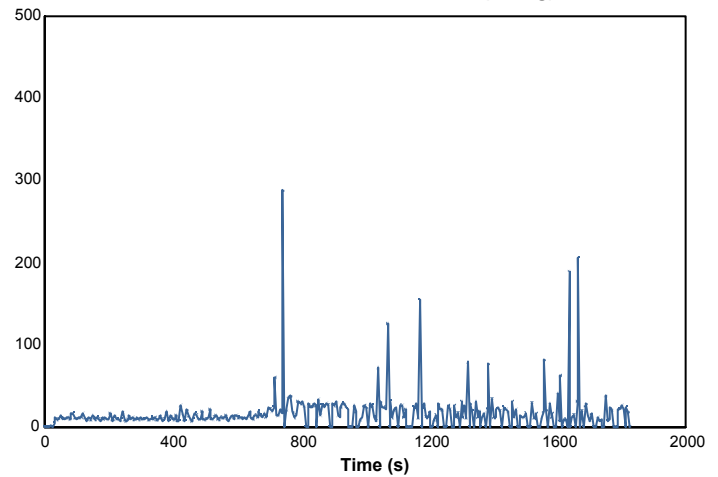
Test Number : 17-004364
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Specimen : 1

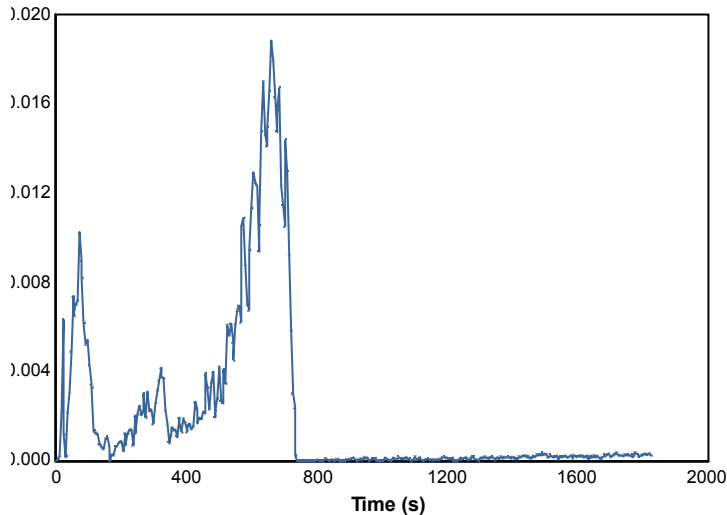
Heat release rate (kW/m²)



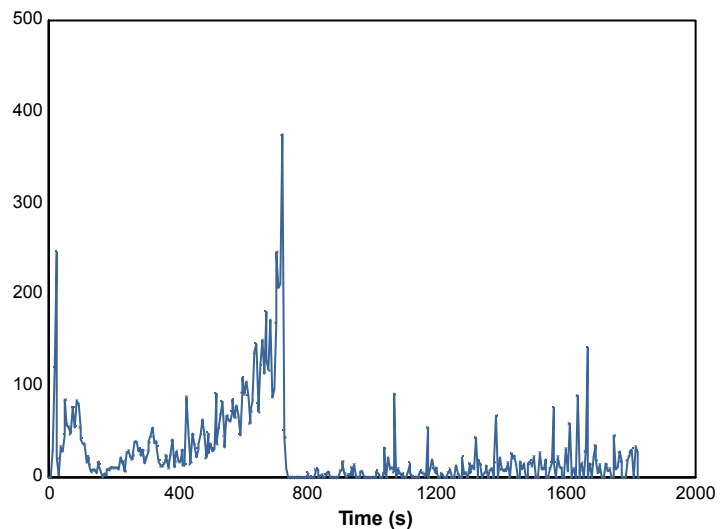
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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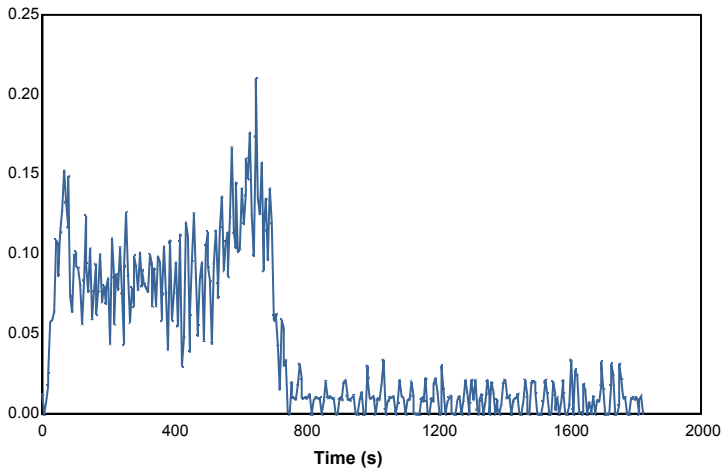
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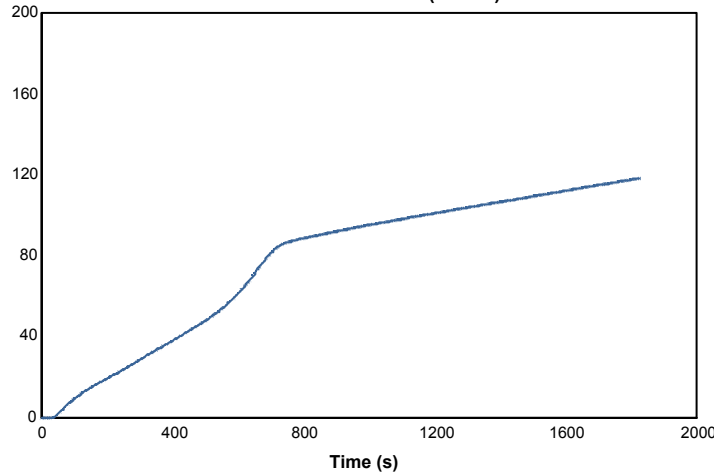
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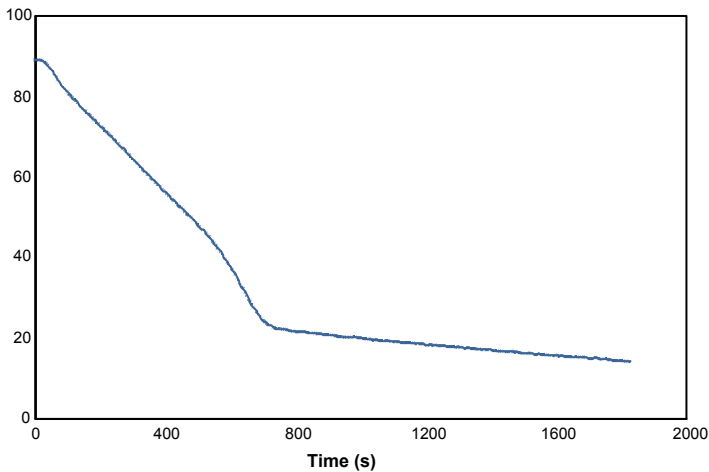
Mass loss rate (g/s)



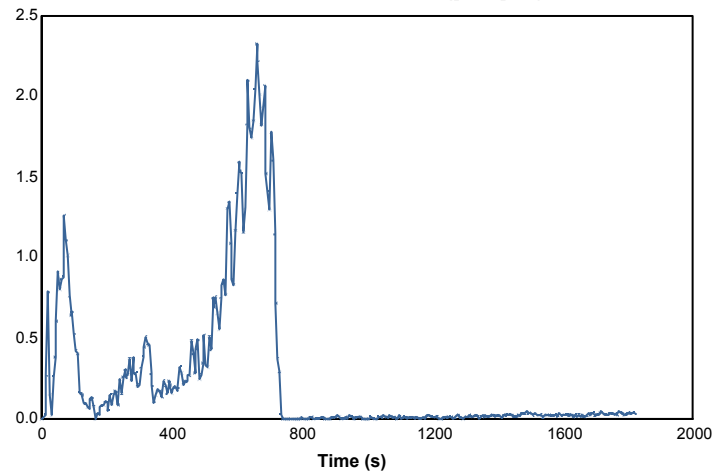
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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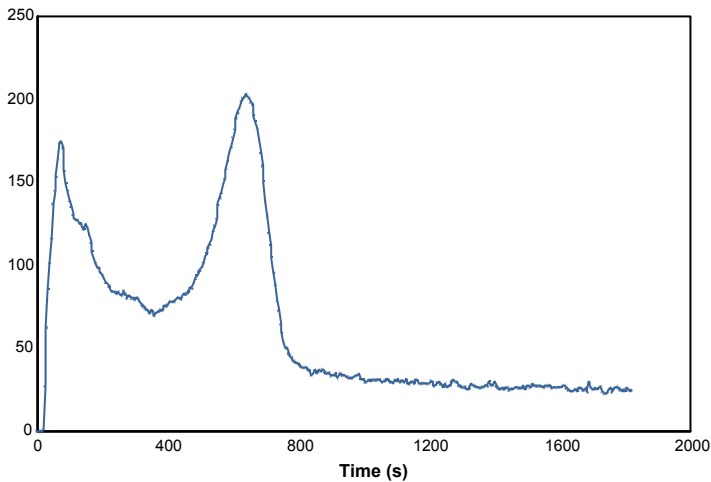
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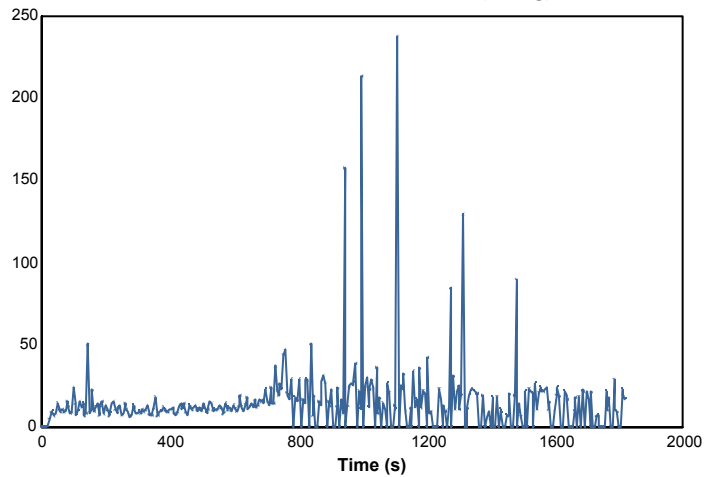
Test Number : 17-004364
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Order Number : 2138

Specimen : 2

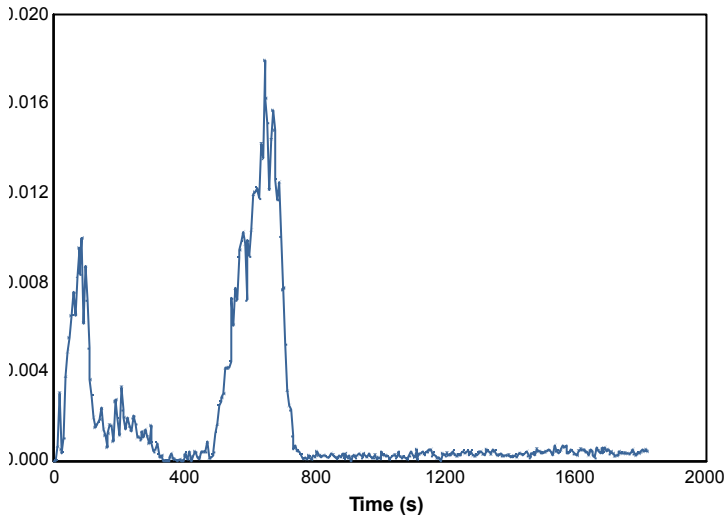
Heat release rate (kW/m²)



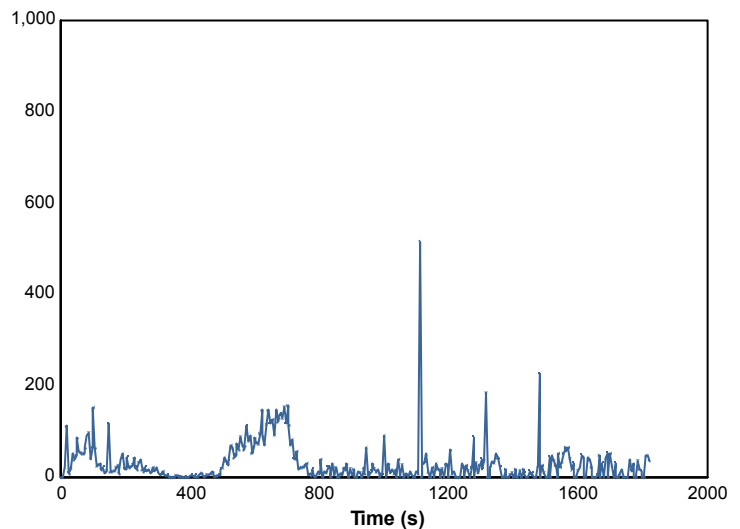
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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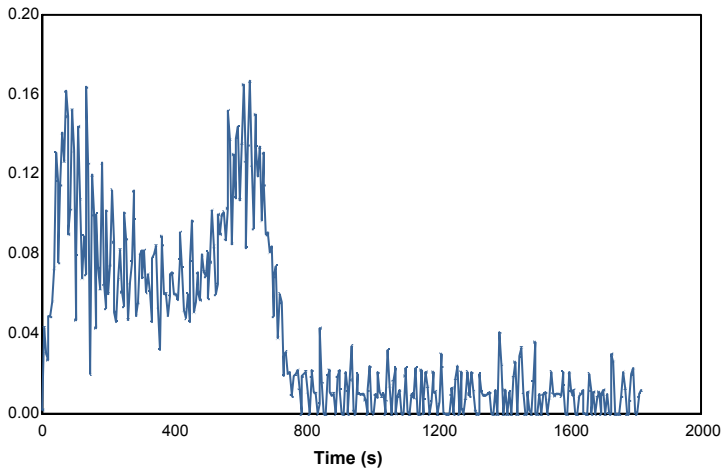
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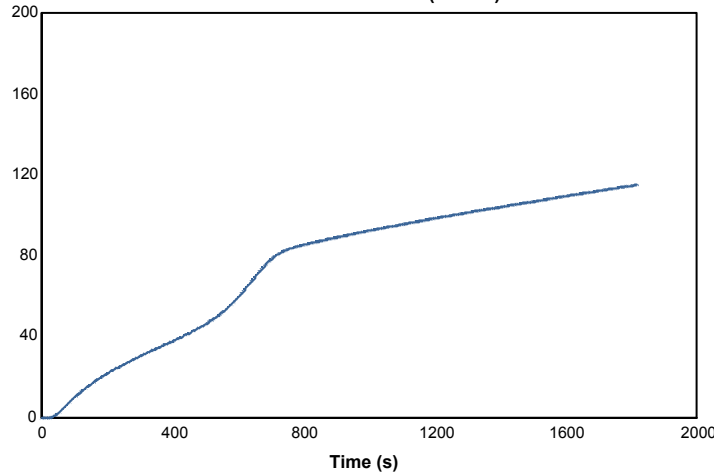
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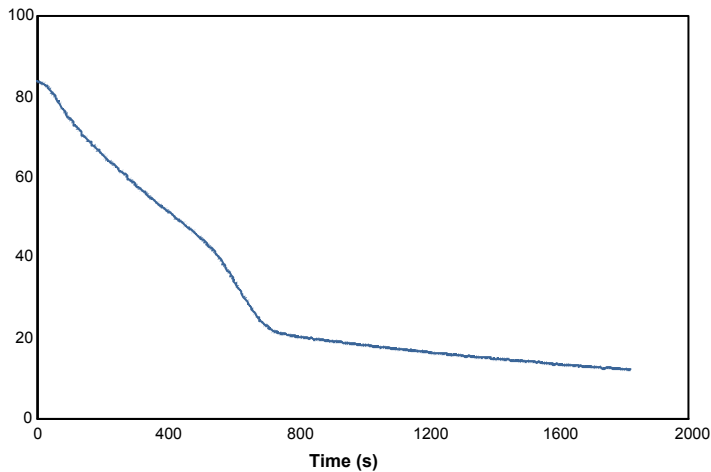
Mass loss rate (g/s)



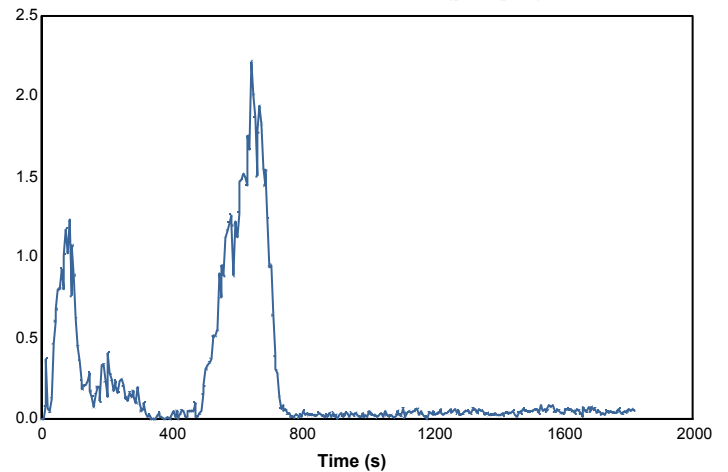
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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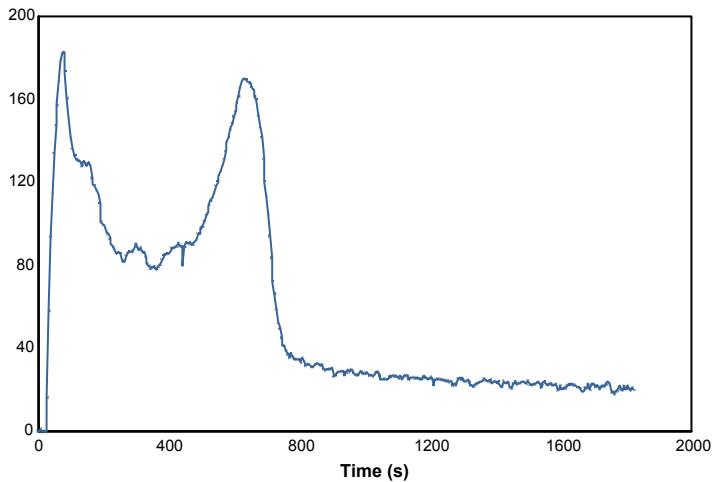
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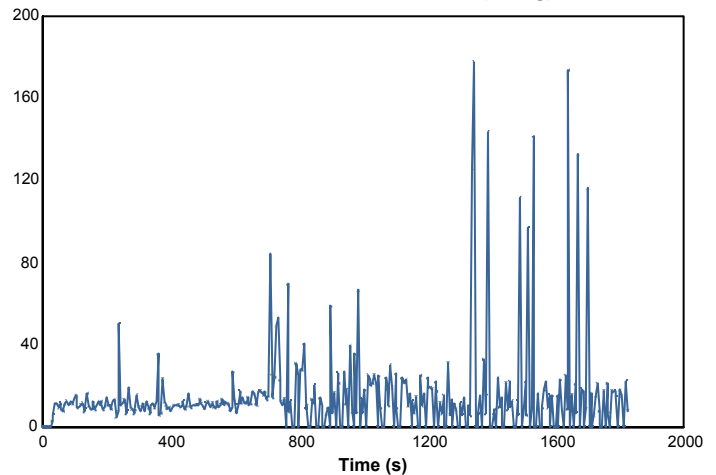
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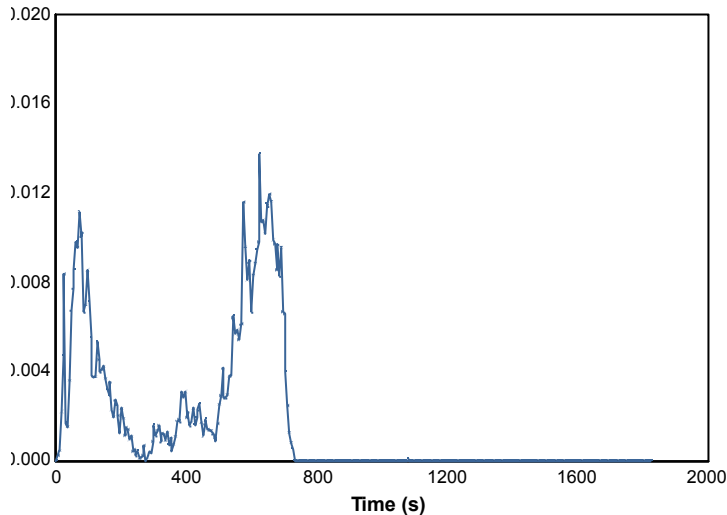
Heat release rate (kW/m²)



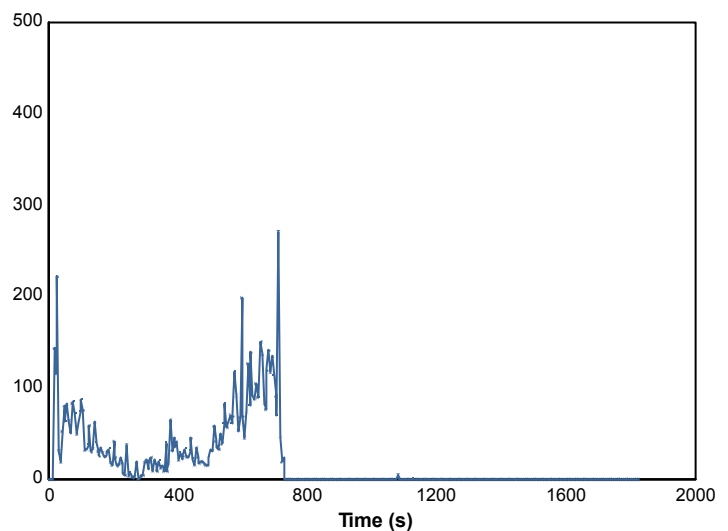
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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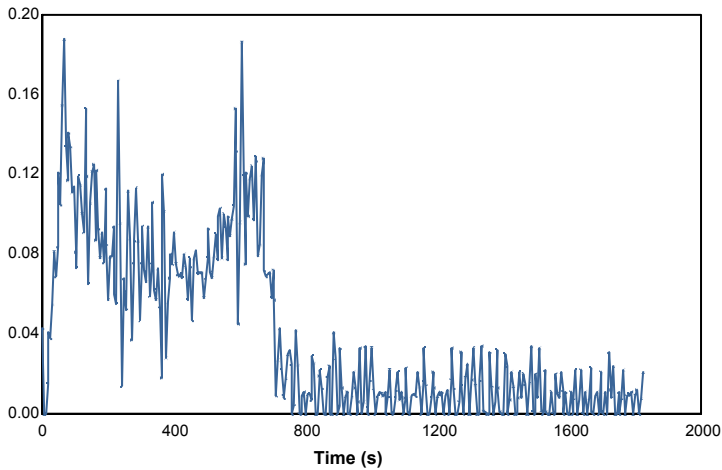
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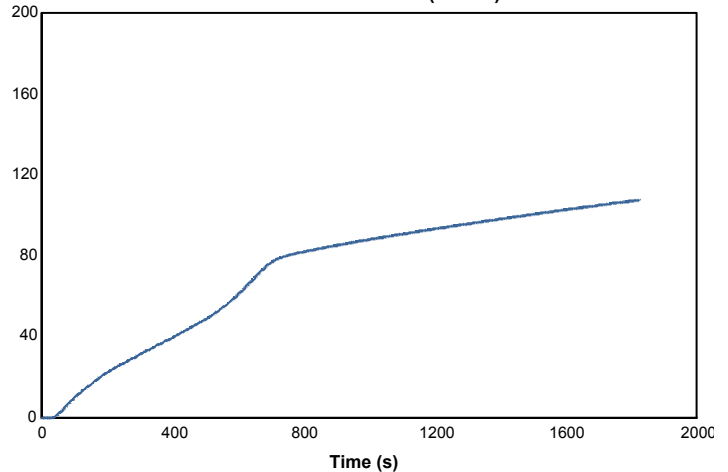
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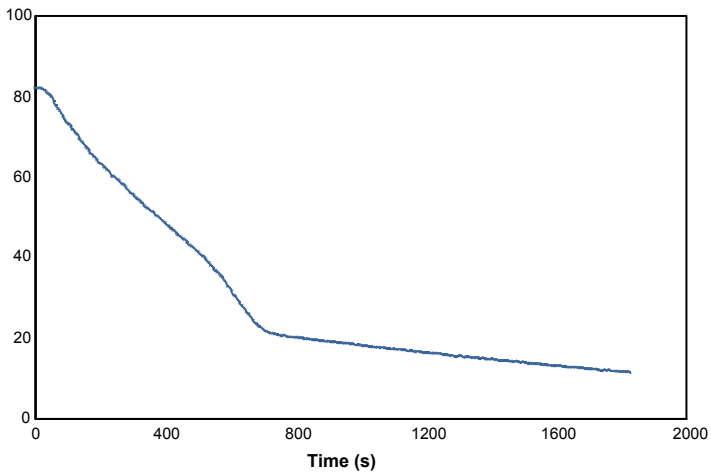
Mass loss rate (g/s)



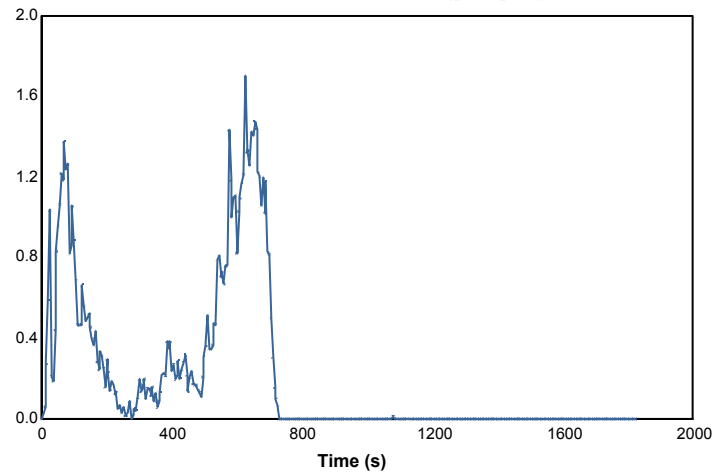
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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