

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

Group Number Assessment

(In accordance with New Zealand Building Code Verification Method C/VM2 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 : 20-002770
Issue Date : 17/06/2020
Print Date : 17/06/2020

Sponsor Product Clients Ref : "Laminex Laboratory Grade Compact Laminate"
Rigid Panel
Colour : White
Nominal Composition : Compact laminate incorporating cellulose fibres and thermosetting resins
Nominal Mass per Unit Area/Density : 1400kg/m3
Nominal Thickness : 16mm

Product Group Number Classification : 3

Average Specific Extinction Area : 34.5 m²/kg



Fiona McDonald
Testing Technologist

44573

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TEST REPORT

Client : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 20-002770
Issue Date : 16/06/2020
Print Date : 17/06/2020
Order Number : 3455941

Sample Description Clients Ref : "Laminex Laboratory Grade Compact Laminate"
Rigid Panel
Colour : White
Nominal Composition : Compact laminate incorporating cellulose fibres and thermosetting resins
Nominal Mass per Unit Area/Density : 1400kg/m³
Nominal Thickness : 16mm

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)

Date Tested 16/06/2020
Operator AWTA Test Operator 2
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	87.2	92.2	93.0	90.8	kW/m ²
Average Specific extinction area	42.6	26.0	35.0	34.5	m ² /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	82	74	74	77	sec
Test duration	1882	1874	1874	1877	sec
Peak heat release after ignition	111.4	124.0	125.9	120.4	kW/m ²
Average heat at 180 s	76.1	75.8	78.2	76.7	kW/m ²
Average heat at 300 s	74.3	74.7	77.2	75.4	kW/m ²

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APPROVED SIGNATORY

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MANAGING DIRECTOR

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Order Number : 3455941

Total heat released	156.4	165.5	166.8	162.9	MJ/m ²
Average effective heat of combustion	9.8	10.1	10.4	10.1	MJ/kg
Initial thickness	16	16	16	16.0	mm
Initial mass	231.1	226.7	226.0	227.9	g
Mass at sustained flaming	230.5	226.0	225.4	227.3	g
Mass remaining	102.1	93.6	96.0	97.2	g
Mass loss	15929.5	16433.0	16051.2	16137.9	g/m ²
Average rate of mass loss	8.9	9.2	8.9	9.0	g/m ² .s
Total smoke Production (Non Flaming phase)	23.6	11.9	5.6	13.7	m ² /m ²
Total smoke Production (Flaming phase)	680.8	426.5	564.8	557.4	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	704.4	438.4	570.4	571.1	m ² /m ²
Specimen Surface area	0.00810	0.00810	0.00810	-	m ²
C-Factor (Calibration Constant)	0.040607	0.040607	0.040607	-	-
Additional Observations	None				
Difficulties Encountered during Testing	None				

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.

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: All calculations are based on ignition + 30 minutes.

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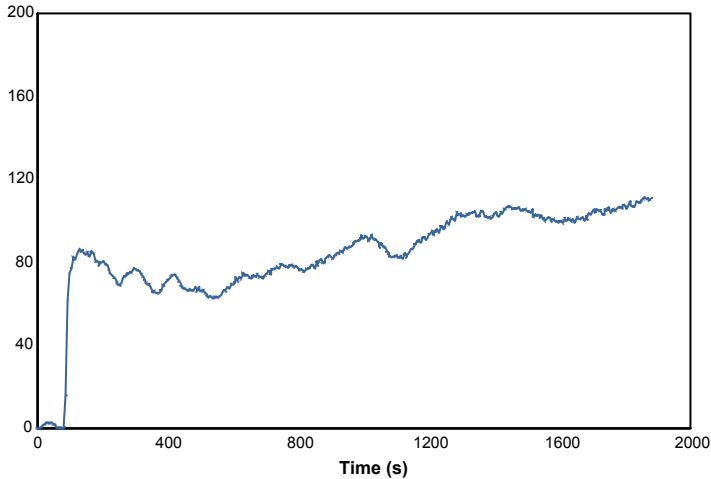
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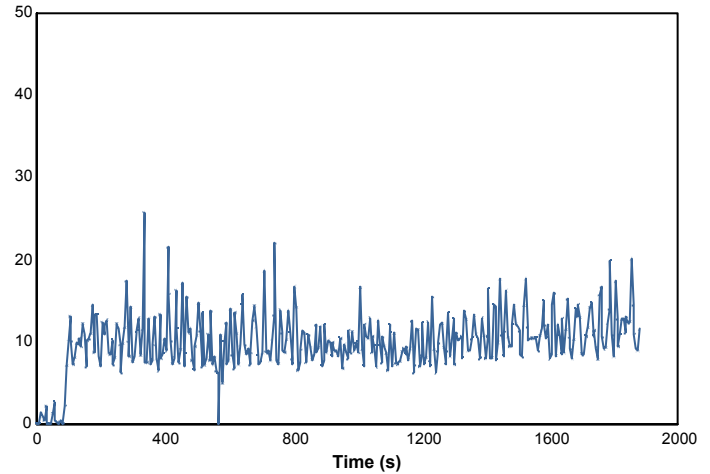
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Issue Date : 16/06/2020
Print Date : 17/06/2020
Order Number : 3455941

Specimen : 1

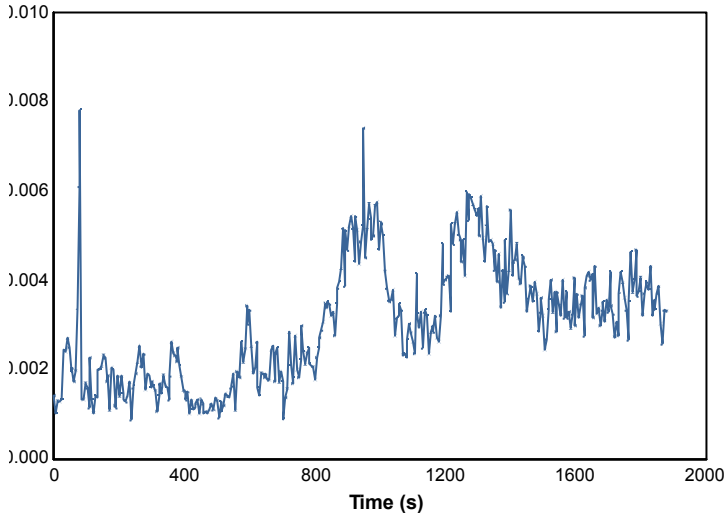
Heat release rate (kW/m²)



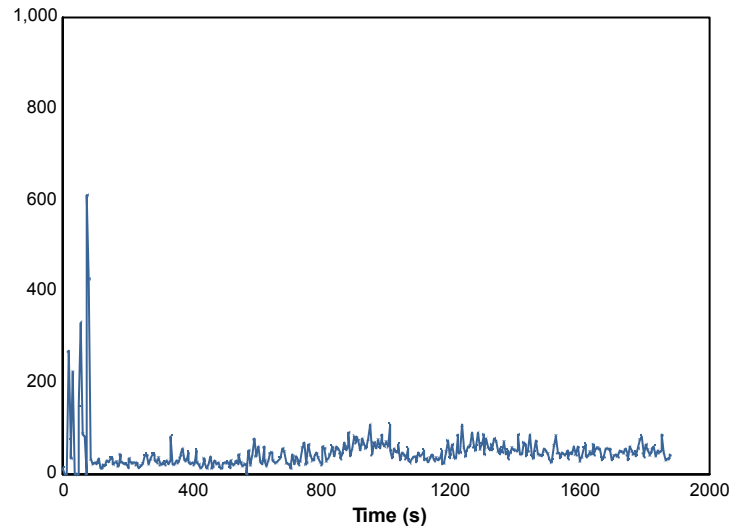
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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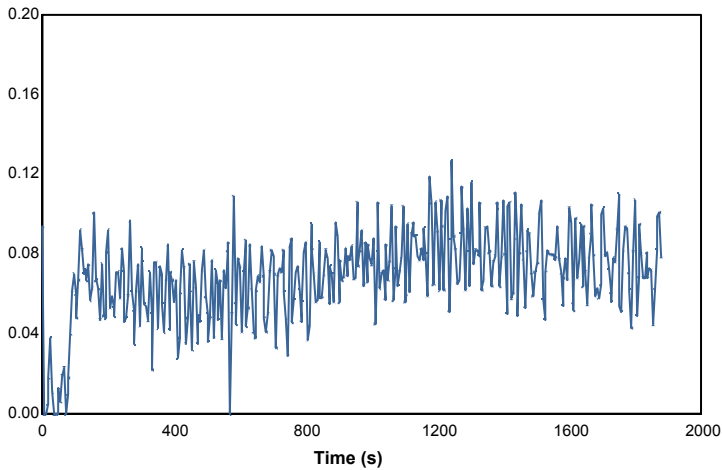
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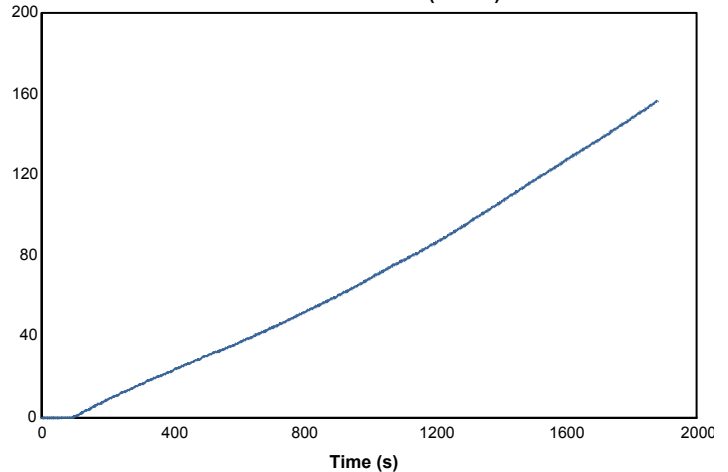
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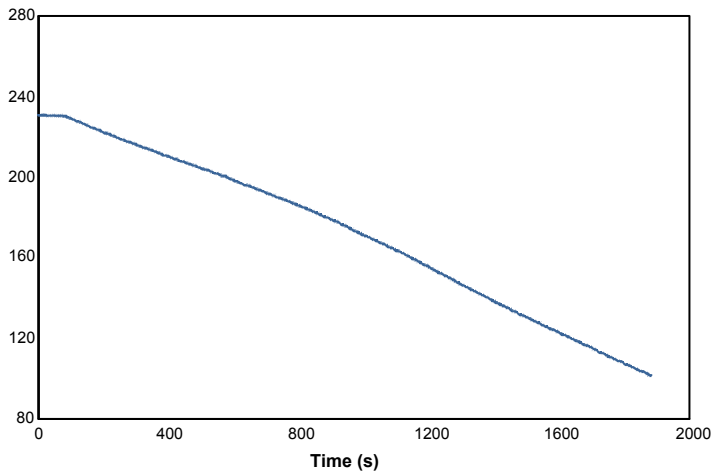
Mass loss rate (g/s)



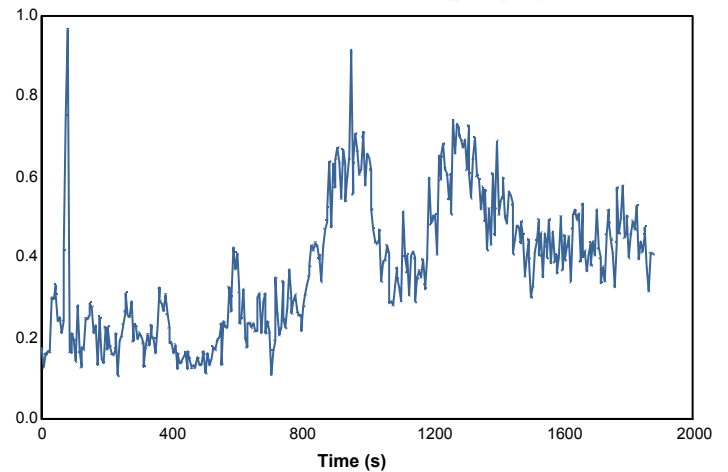
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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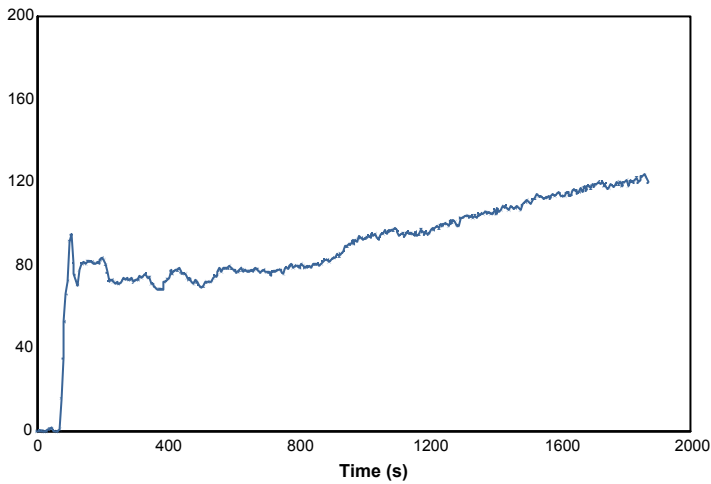
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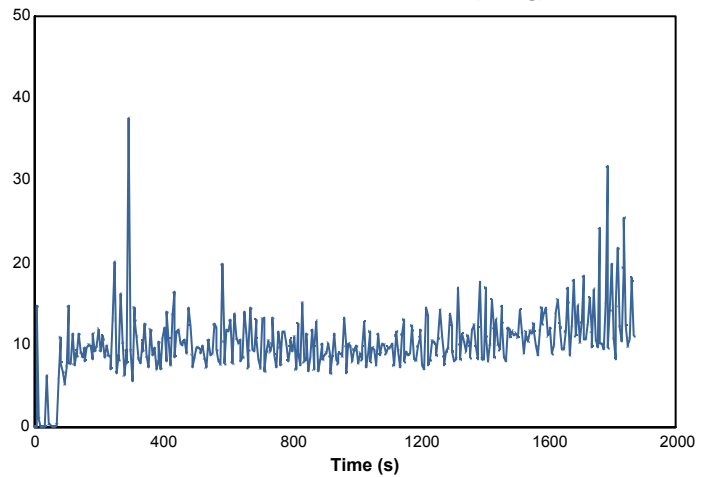
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Specimen : 2

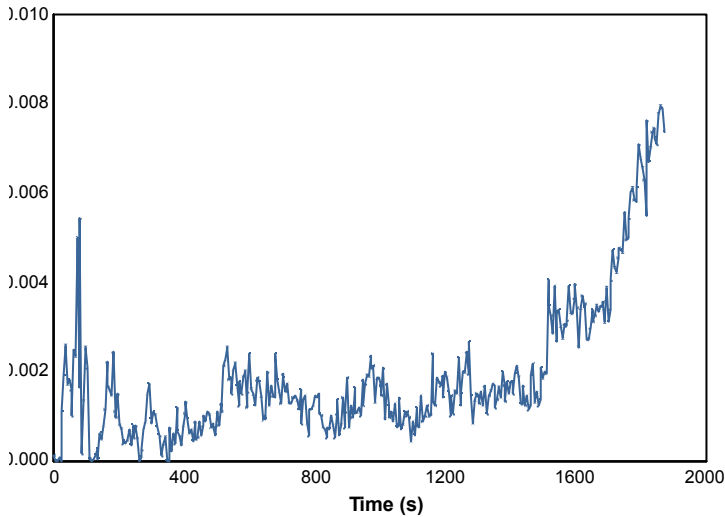
Heat release rate (kW/m²)



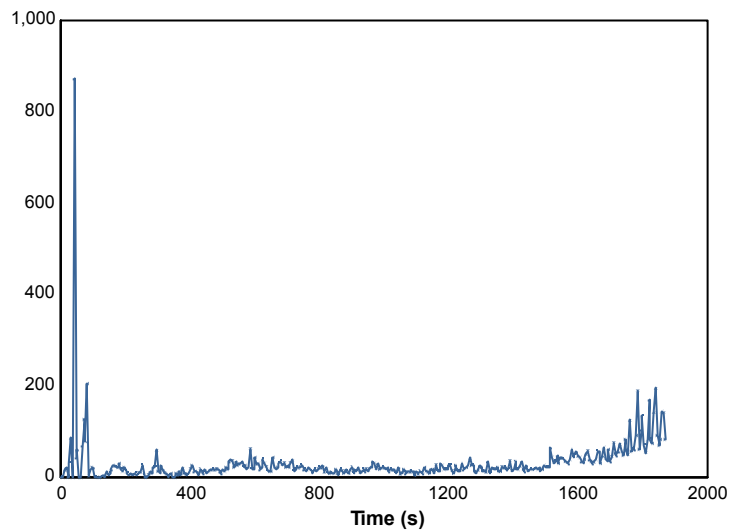
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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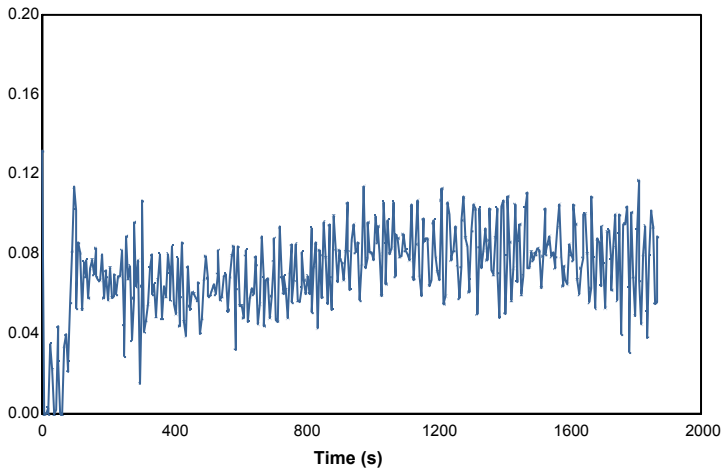
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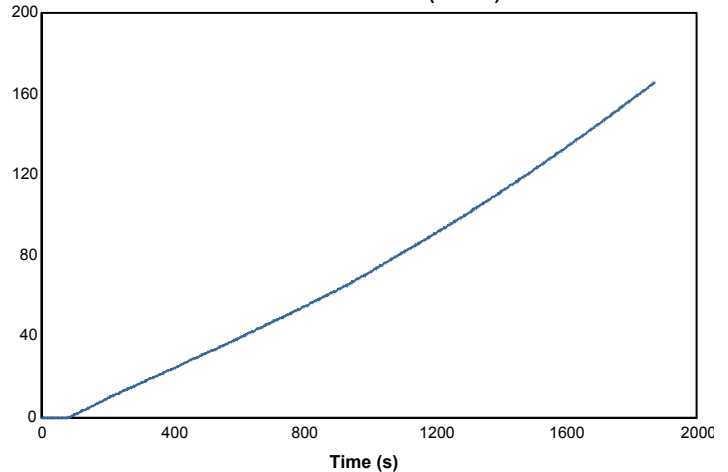
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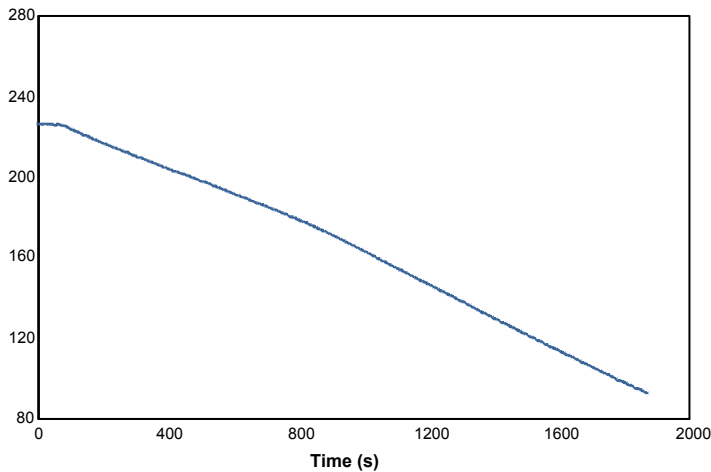
Mass loss rate (g/s)



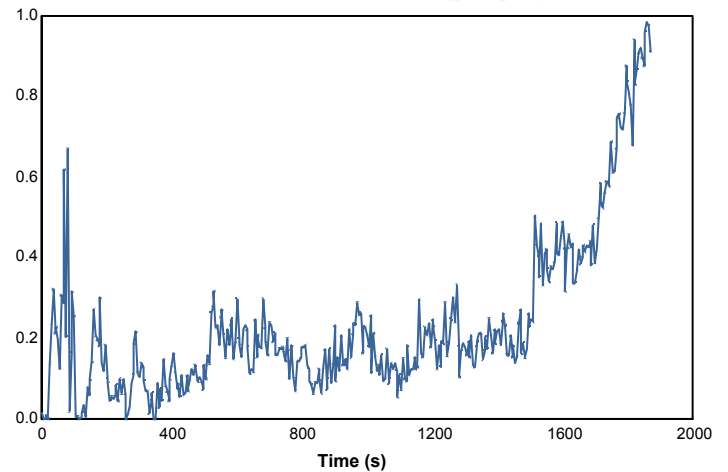
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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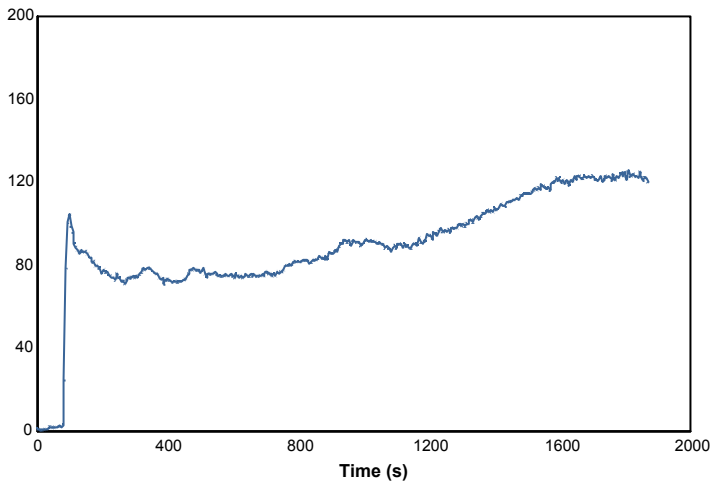
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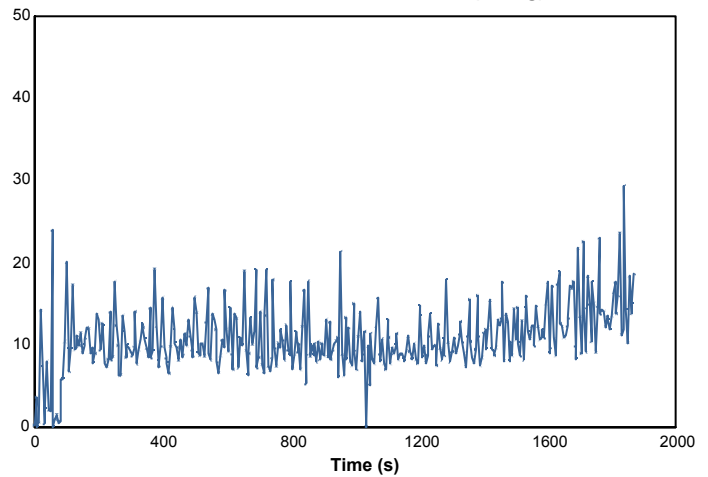
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Specimen : 3

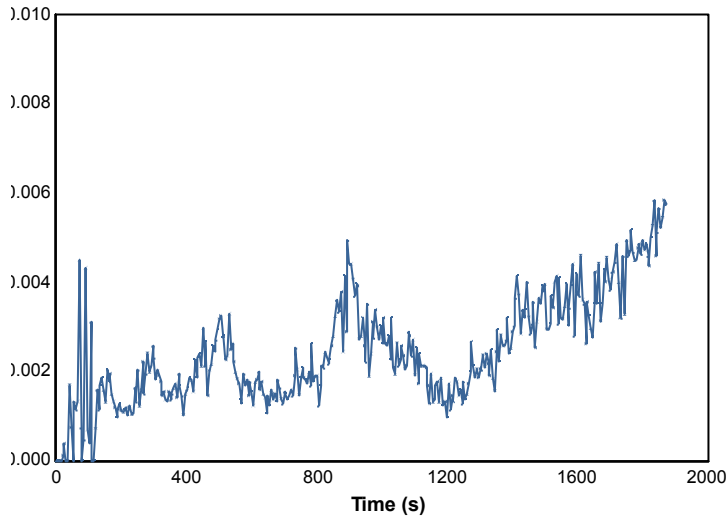
Heat release rate (kW/m²)



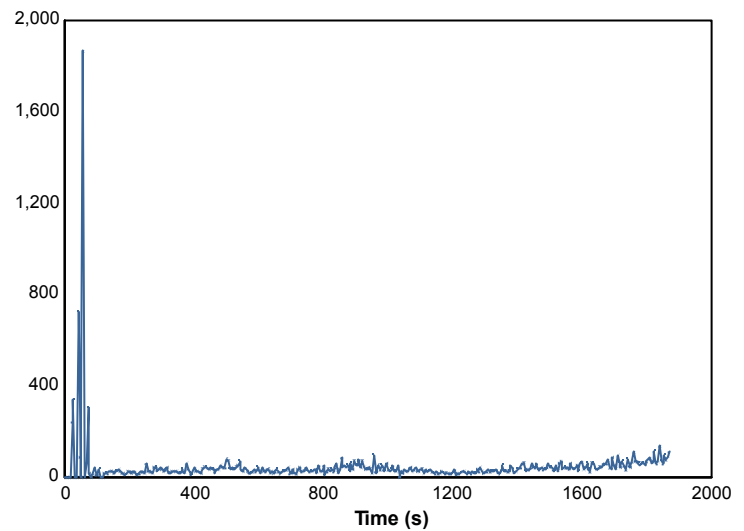
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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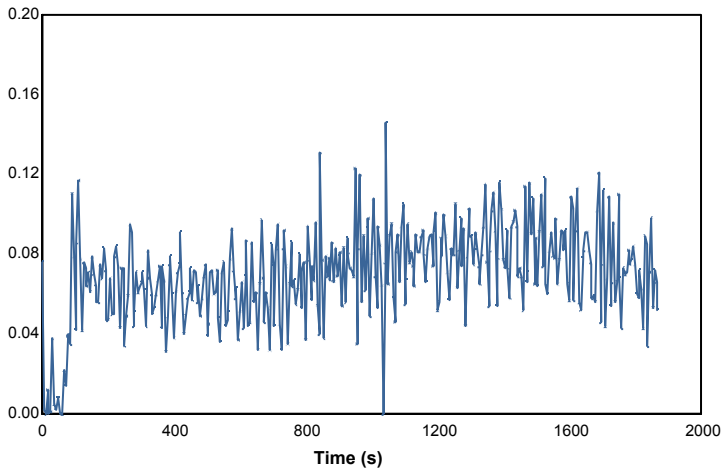
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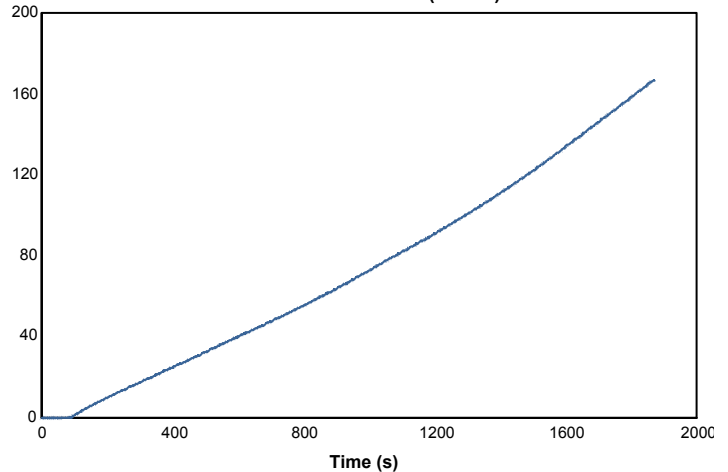
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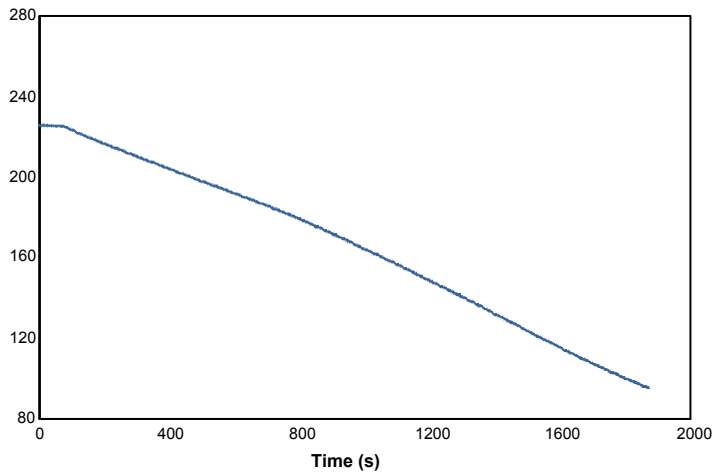
Mass loss rate (g/s)



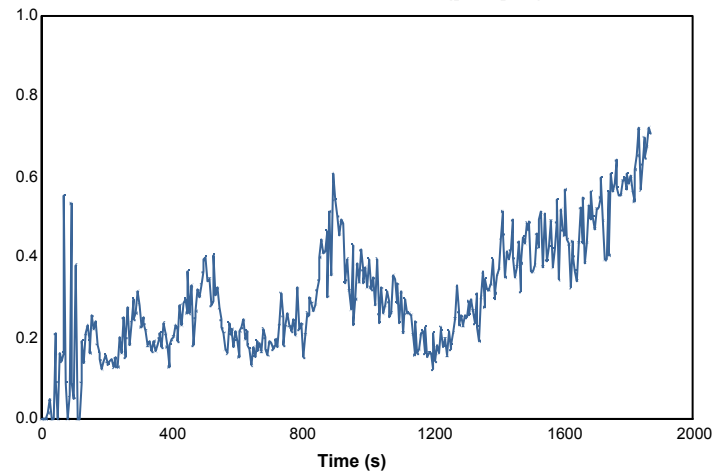
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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