

AWTA PRODUCT TESTING

A Division of Australian Wool Testing Authority Limited

Laboratory: 1st Floor, 191 Racecourse Rd, Flemington, Victoria 3031 P.O. Box 240 Nth Melbourne 3051 Tel: (03) 9371 2400 Fax: (03) 9371 2499
Website: www.awtaproducttesting.com.au Email: producttesting@awta.com.au

A.B.N. 43 006 014 106

Group Number Assessment (in accordance with AS 5637.1-2015)

Number: 1901001
Issue Date: 21/01/2019

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 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)

AWTA Product Testing report number: 18-007300

Date of Test: 21/01/2019

Test Sponsor

The Laminex Group
22 Trewin Street
Wendouree
Victoria 3355

Sponsor Product Reference: "Sample 23545"

Sponsor Product Description: BS 1088 Marine Grade Plywood - unbacked
Colour: Natural Nominal Composition: Plywood veneer layers held together with
adhesive Mass per unit area: 610 kg/m³
Nominal Thickness: 14mm

Product Group Number Classification: Group 3
Average Specific Extinction Area: 24.0 m²/kg

Sean Bassett
Divisional Manager

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TEST REPORT

Client : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 18-007300
Issue Date : 21/01/2019
Print Date : 21/01/2019
Order Number : 3455941

Sample Description Clients Ref : Sample 23545
BS 1088 Marine grade. Plywood - unbacked
Colour : Natural
Nominal Composition : Plywood veneer layers held together with adhesive
Nominal Mass per Unit Area/Density : 610kg/m3
Nominal Thickness : 14mm

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 17/01/2019
Operator AWTA Test Operator 3
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	64.8	68.5	66.9	66.7	kW/m ²
Average Specific extinction area	29.2	19.8	22.9	24.0	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	43	31	35	36	sec
Test duration	1843	1831	1835	1836	sec
Peak heat release after ignition	269.8	253.0	219.6	247.5	kW/m ²
Average heat at 180 s	109.2	116.9	121.0	115.7	kW/m ²
Average heat at 300 s	102.2	107.7	108.9	106.3	kW/m ²
Total heat released	117.3	123.6	120.4	120.4	MJ/m ²

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Order Number : 3455941

Average effective heat of combustion	13.6	13.9	14.0	13.8	MJ/kg
Initial thickness	14	14	14	14.0	mm
Initial mass	86.9	87	86	86.6	g
Mass at sustained flaming	85.5	86.1	84.9	85.5	g
Mass remaining	16.6	15.1	16.4	16.0	g
Mass loss	8675.6	8882.6	8588.7	8715.6	g/m ²
Average rate of mass loss	8.5	7.8	8.4	8.2	g/m ² .s
Total smoke Production (Non Flaming phase)	3.6	1.0	1.0	1.9	m ² /m ²
Total smoke Production (Flaming phase)	262.2	189.7	212.7	221.5	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	265.9	190.7	213.7	223.4	m ² /m ²
Specimen Surface area	0.00810	0.00810	0.00810	-	m ²
C-Factor (Calibration Constant)	0.042979	0.042979	0.042979	-	-
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

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.

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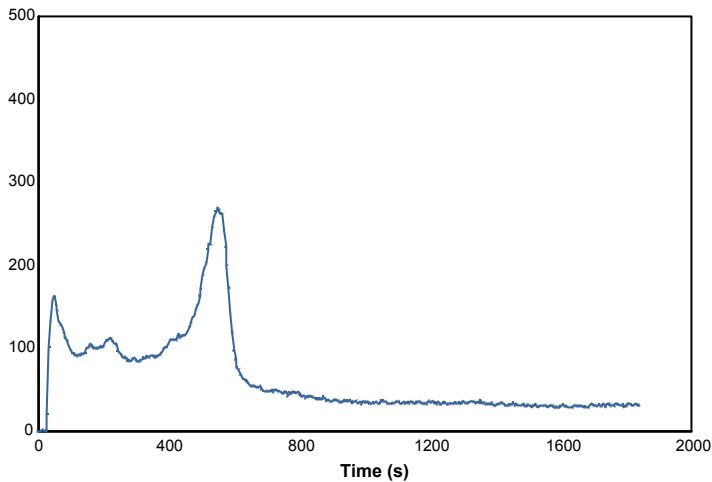
TEST REPORT

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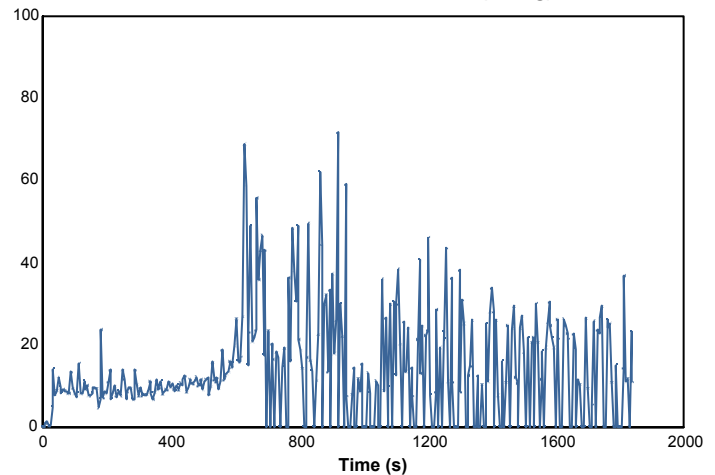
Test Number : 18-007300
Issue Date : 21/01/2019
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Order Number : 3455941

Specimen : 1

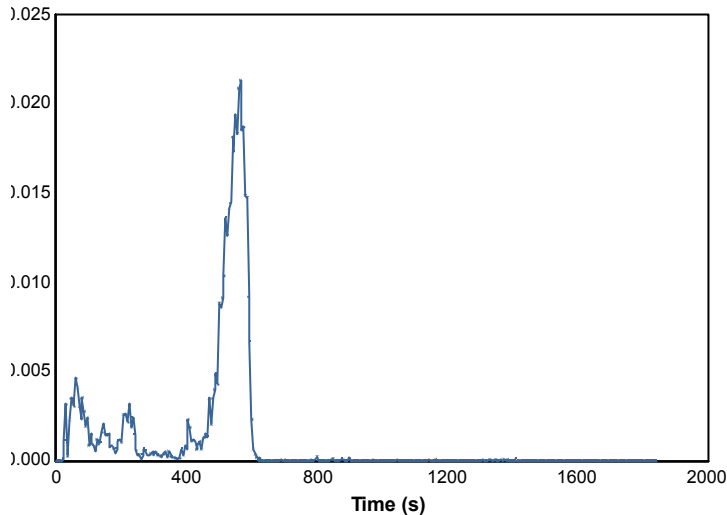
Heat release rate (kW/m²)



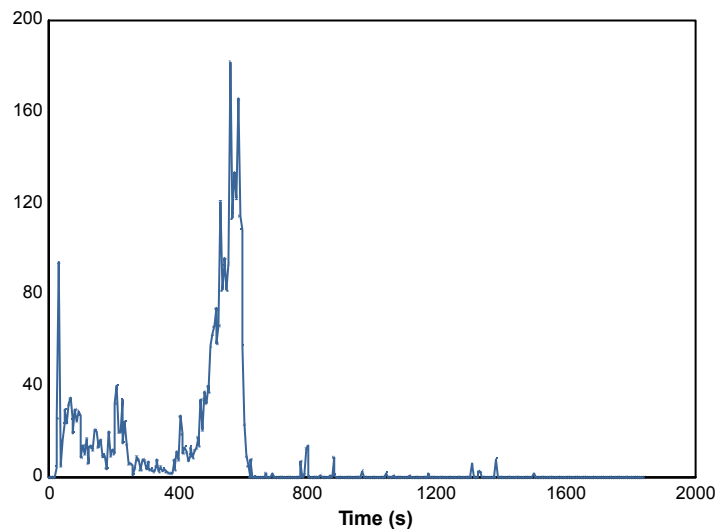
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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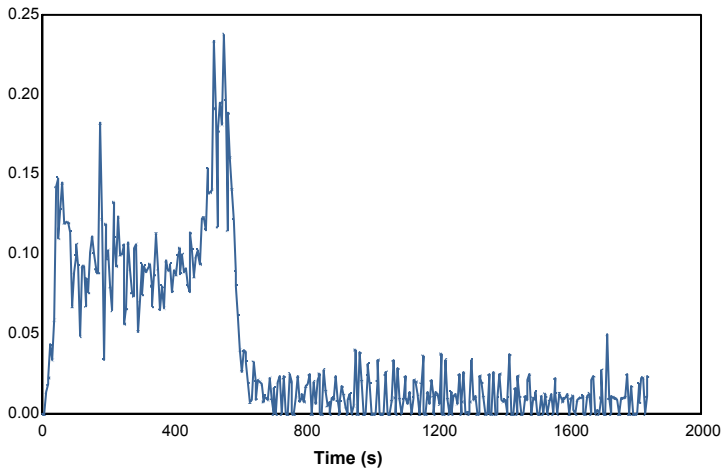
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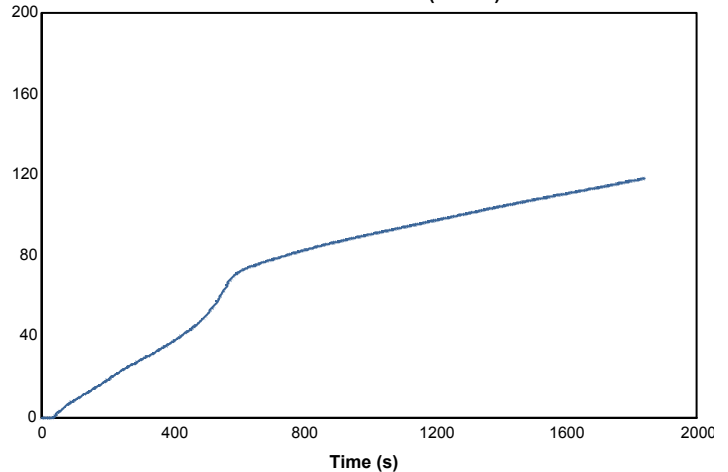
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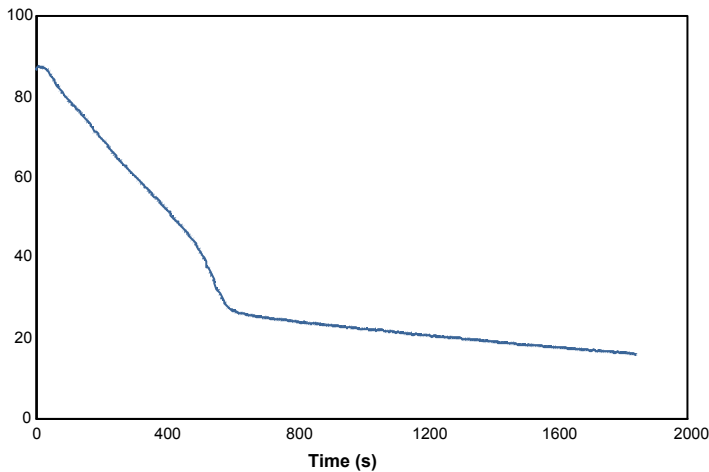
Mass loss rate (g/s)



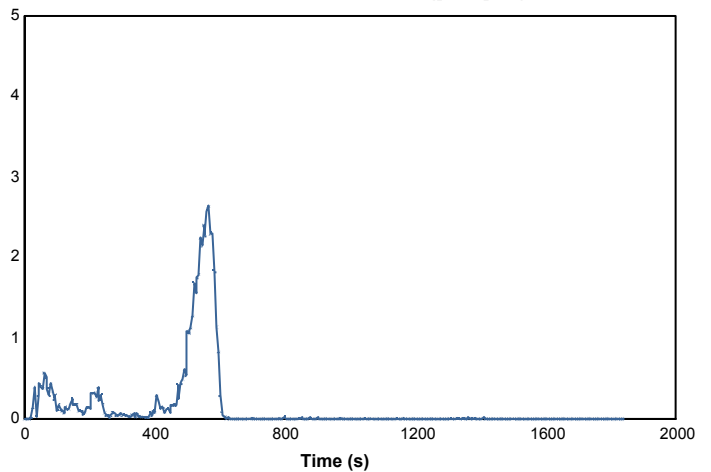
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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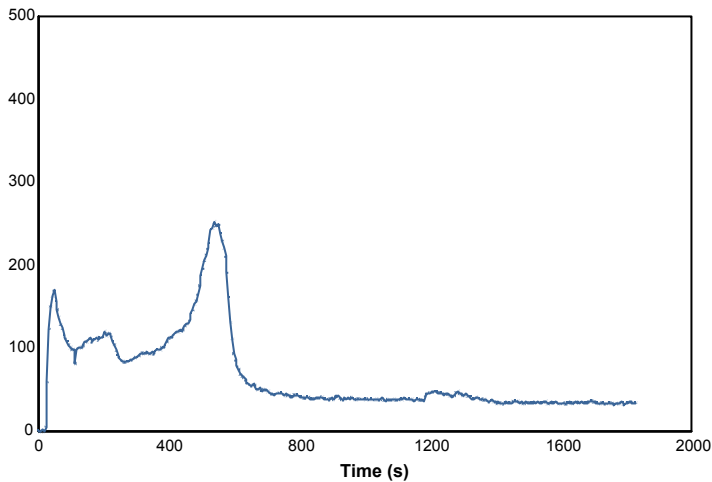
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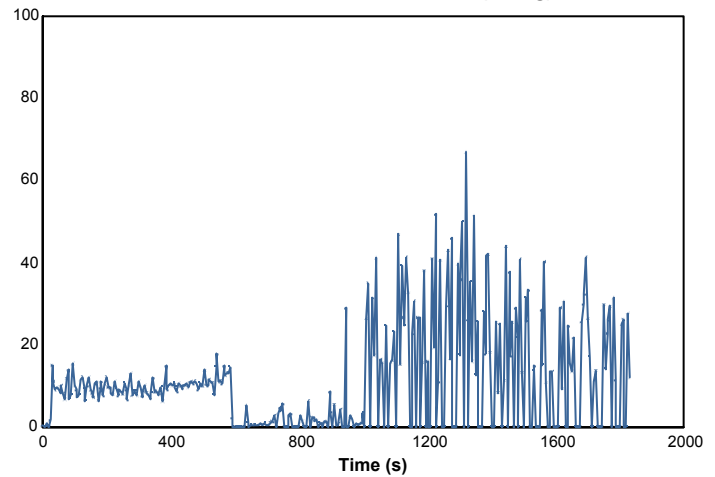
Test Number : 18-007300
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Print Date : 21/01/2019
Order Number : 3455941

Specimen : 2

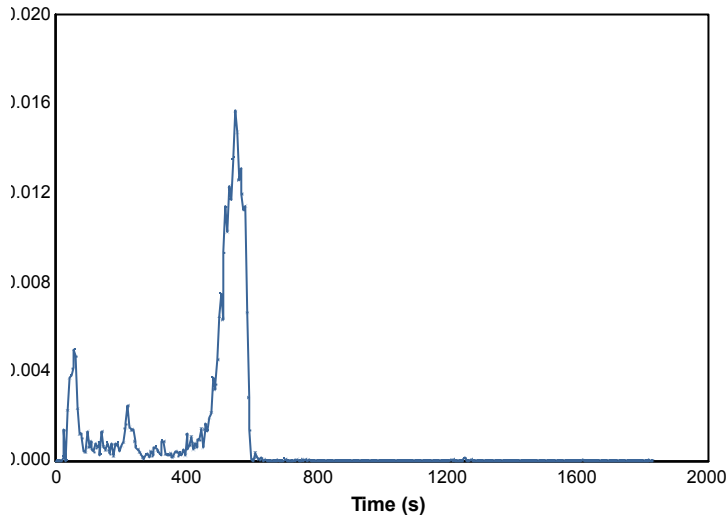
Heat release rate (kW/m²)



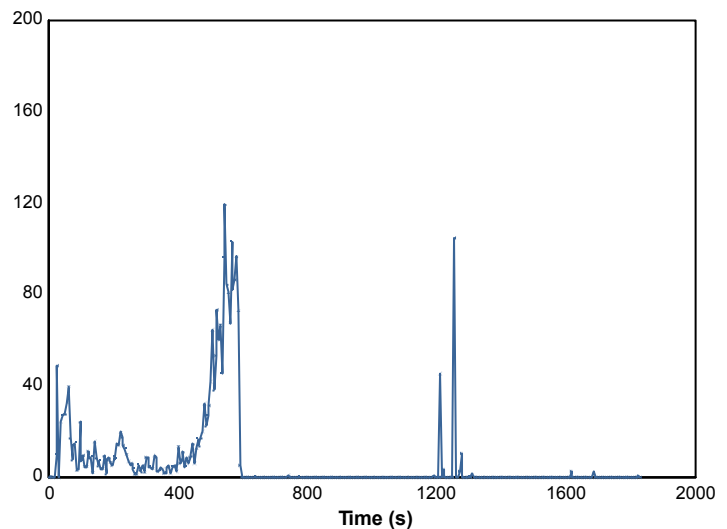
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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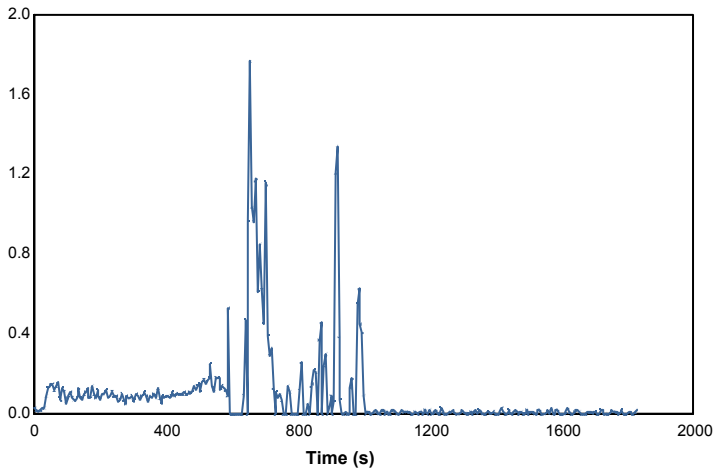
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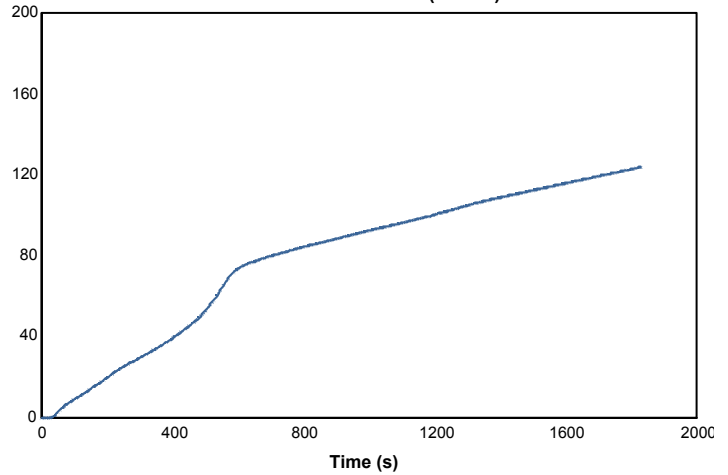
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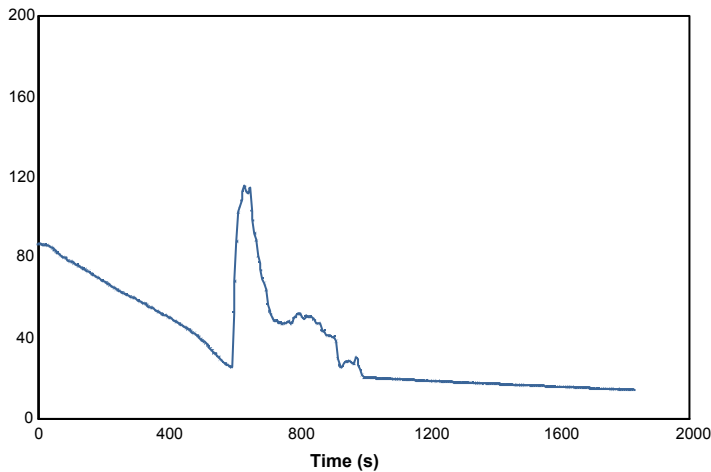
Mass loss rate (g/s)



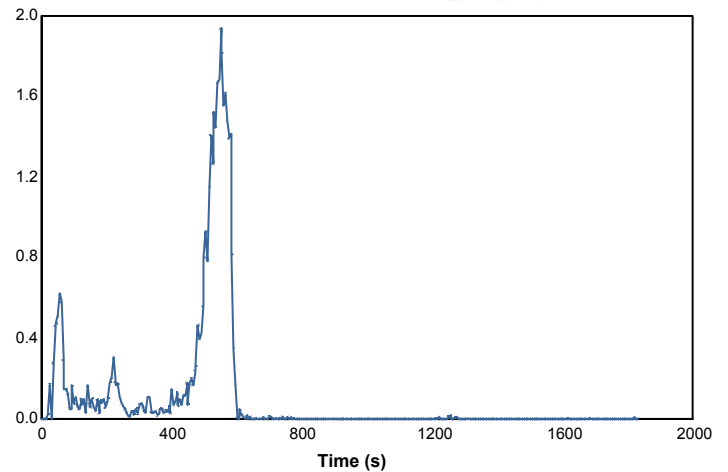
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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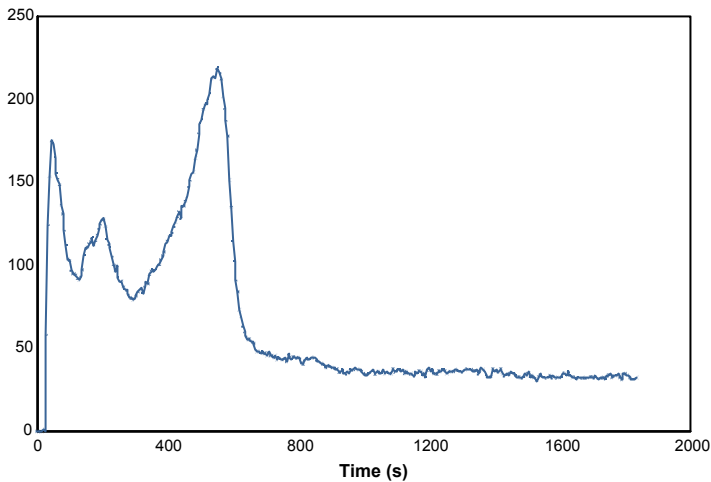
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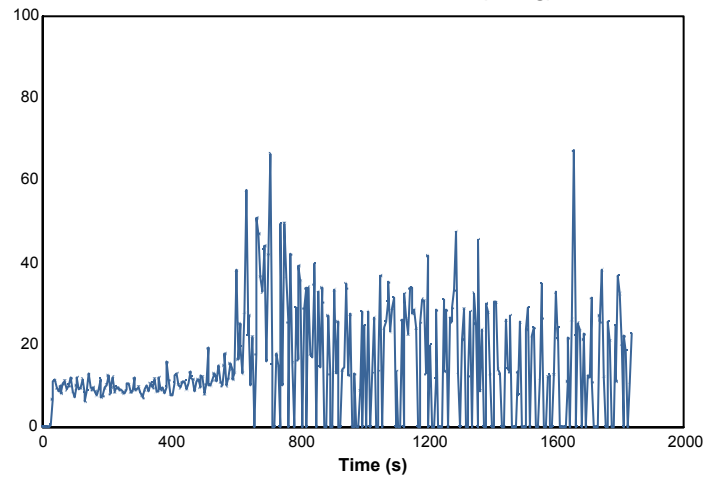
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Specimen : 3

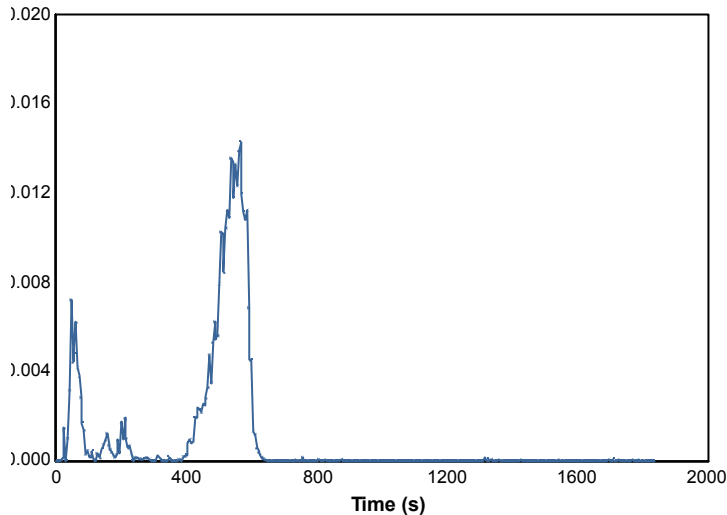
Heat release rate (kW/m²)



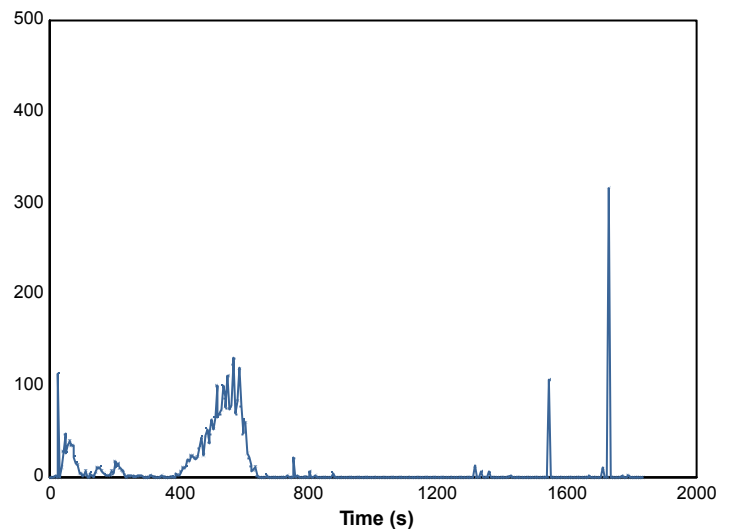
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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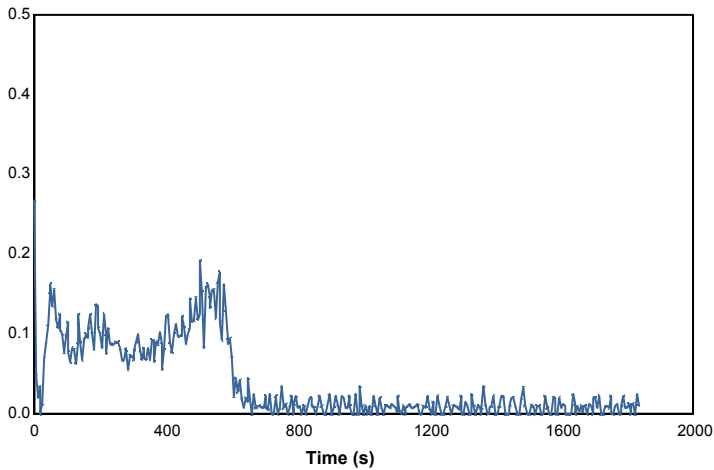
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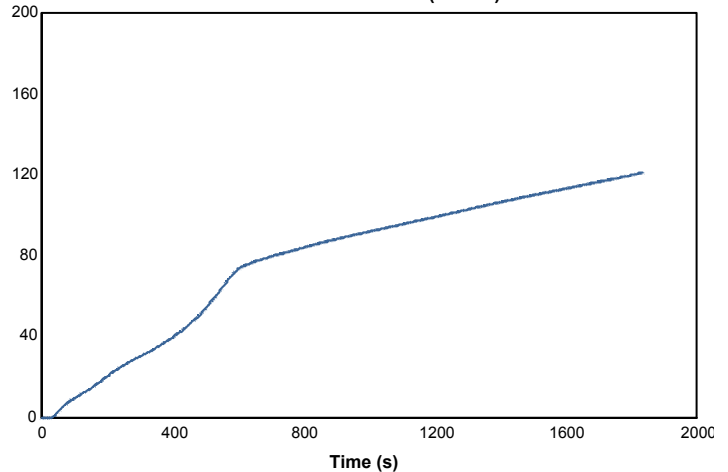
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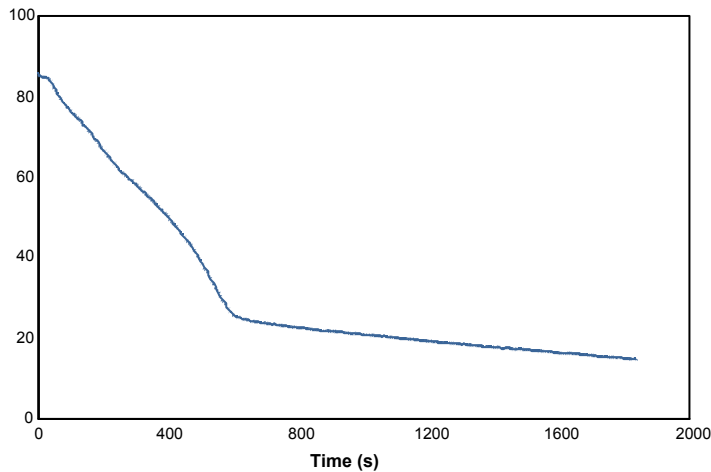
Mass loss rate (g/s)



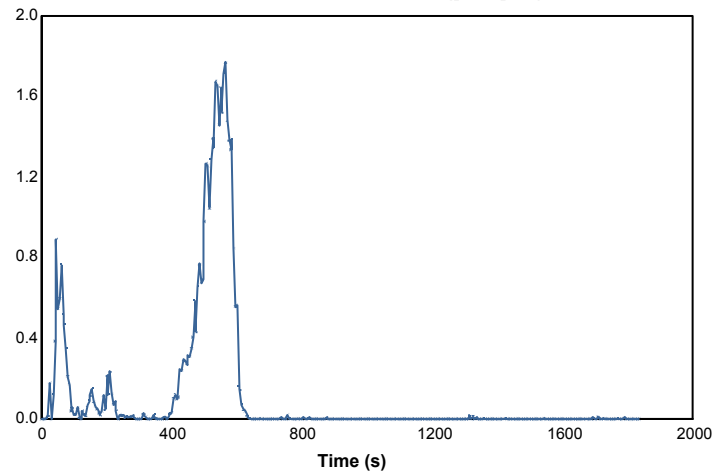
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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