

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. As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

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

Test Number : 20-002289
Issue Date : 25/05/2020
Print Date : 29/09/2020

Sponsor Product

Clients Ref : "Alucci™ Apex"

High Pressure Laminate

Nominal Composition : Paper impregnated with phenolic based resin

Nominal Mass per Unit Area/Density : 1410kg/m³

Nominal Thickness : 0.7mm

Product Group Number Classification :

3S

Average Specific Extinction Area :

10.1 m²/kg



Fiona McDonald
Testing Technologist

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TEST REPORT

Client : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 20-002289
Issue Date : 22/05/2020
Print Date : 24/09/2020

Sample Description Clients Ref : "Alucci™ Apex"
High Pressure Laminate
Nominal Composition : Paper impregnated with phenolic based resin
Nominal Mass per Unit Area/Density : 1410kg/m³
Nominal Thickness : 0.7mm

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 22/05/2020
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	9.9	13.3	13.8	12.3	kW/m ²
Average Specific extinction area				10.1	

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	12	12	10	11	sec
Test duration	1812	1812	1810	1811	sec
Peak heat release after ignition	179.5	184.4	195.1	186.3	kW/m ²
Average heat at 180 s	58.6	63.4	62.9	61.6	kW/m ²
Average heat at 300 s	42.5	47.0	45.6	45.0	kW/m ²
Total heat released	20.6	24.2	24.8	23.2	MJ/m ²
Average effective heat of combustion	5.9	7.7	8.1	7.2	MJ/kg

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Test Number : 20-002289
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Print Date : 24/09/2020

Initial thickness	7	7	7	7.0	mm
Initial mass	92.9	92.1	92.3	92.4	g
Mass at sustained flaming	92.9	92.1	92.3	92.4	g
Mass remaining	68.2	66.6	67.4	67.4	g
Mass loss	3045.7	3153.6	3071.8	3090.4	g/m ²
Average rate of mass loss	1.7	1.7	1.7	1.7	g/m ² .s
Total smoke Production (Non Flaming phase)	0.1	0.3	0.8	0.4	m ² /m ²
Total smoke Production (Flaming phase)	35.2	50.3	42.9	42.8	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	35.3	50.6	43.7	43.2	m ² /m ²
Specimen Surface area				-	
C-Factor (Calibration Constant)	0.040232	0.040232	0.040232	-	
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.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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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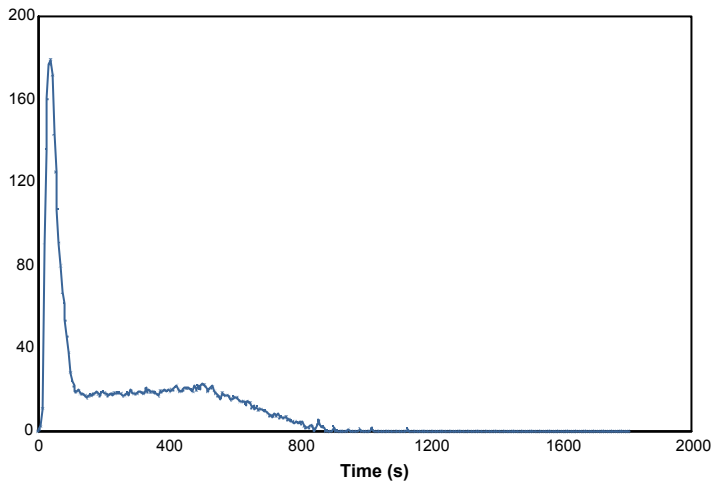
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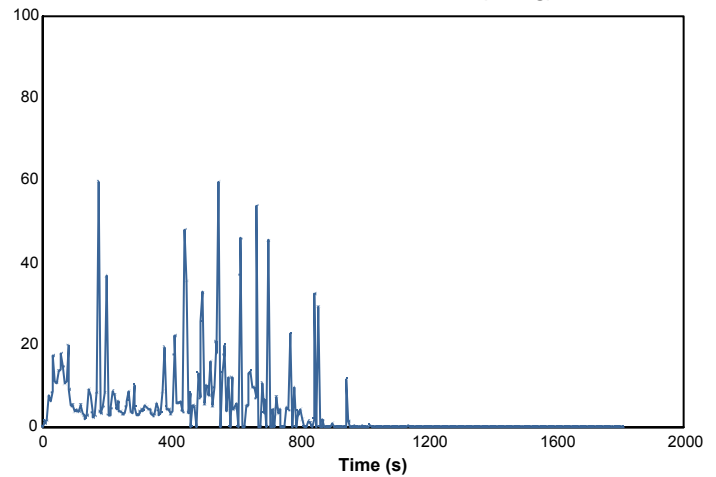
Test Number : 20-002289
Issue Date : 22/05/2020
Print Date : 24/09/2020

Specimen : 1

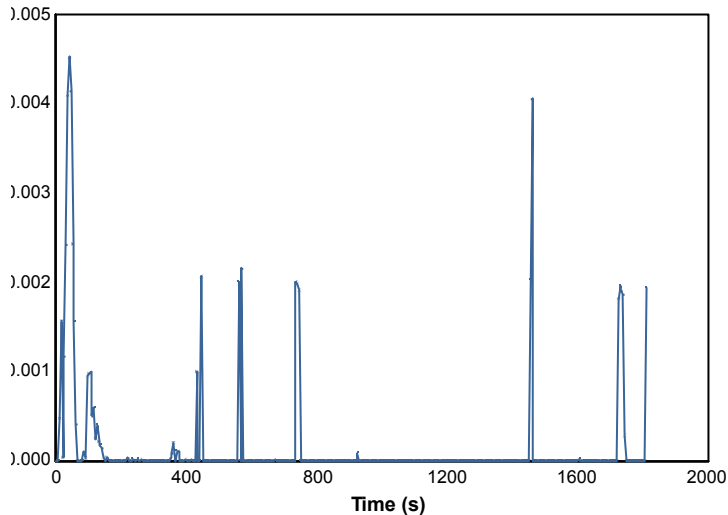
Heat release rate (kW/m²)



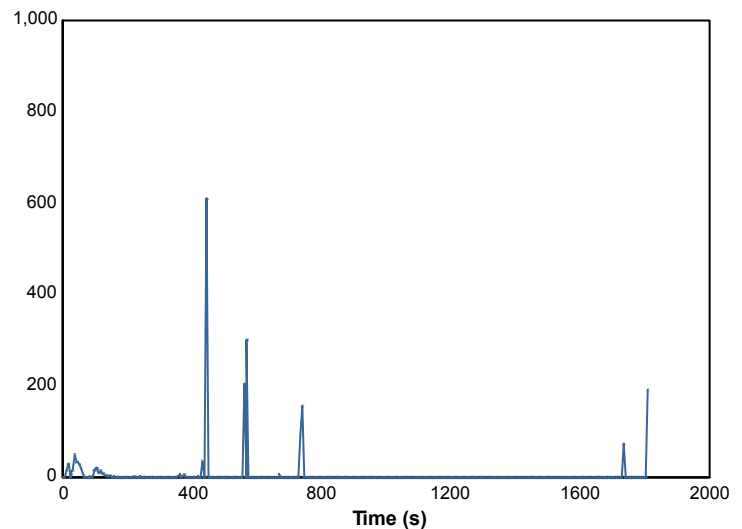
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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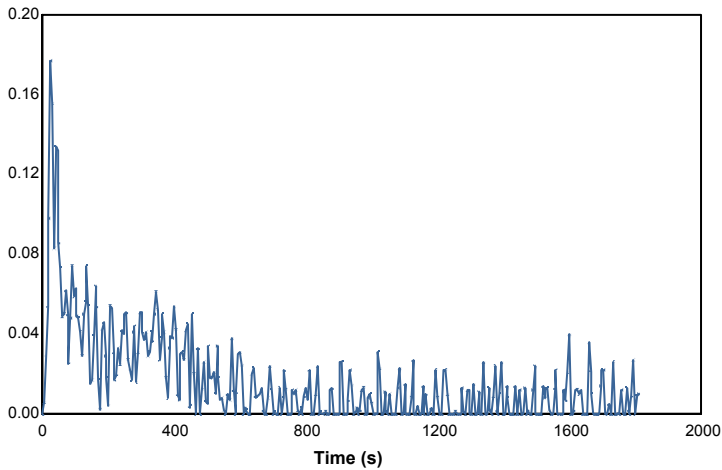
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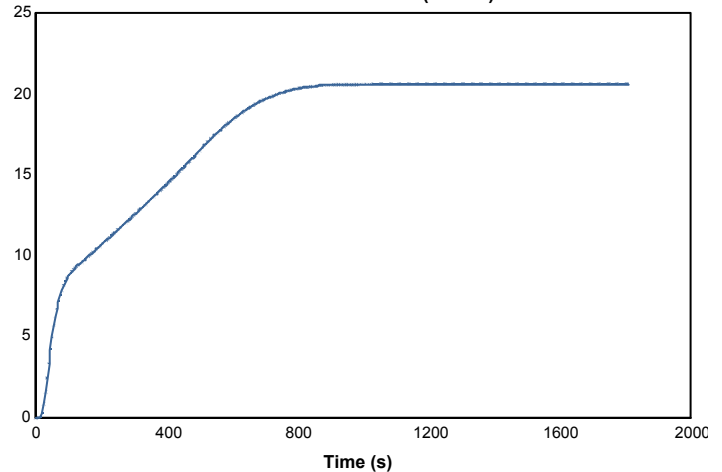
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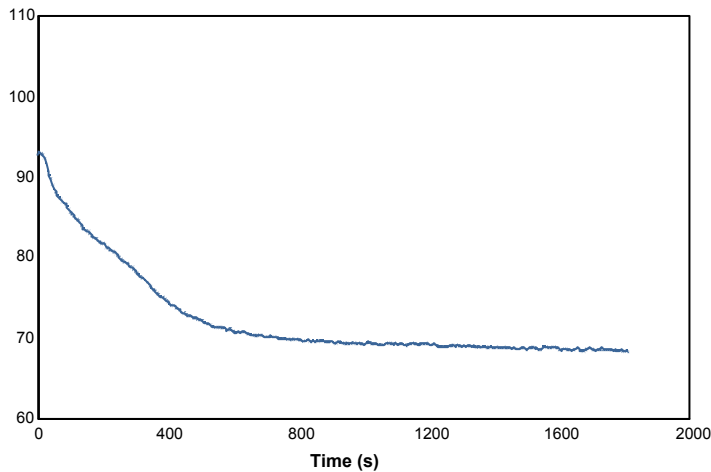
Mass loss rate (g/s)



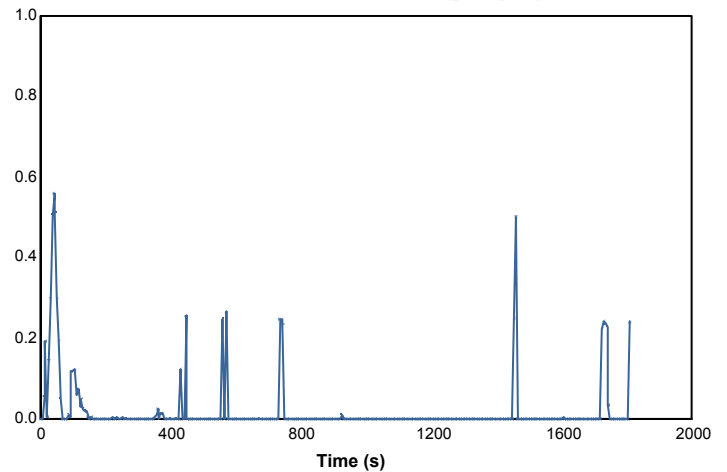
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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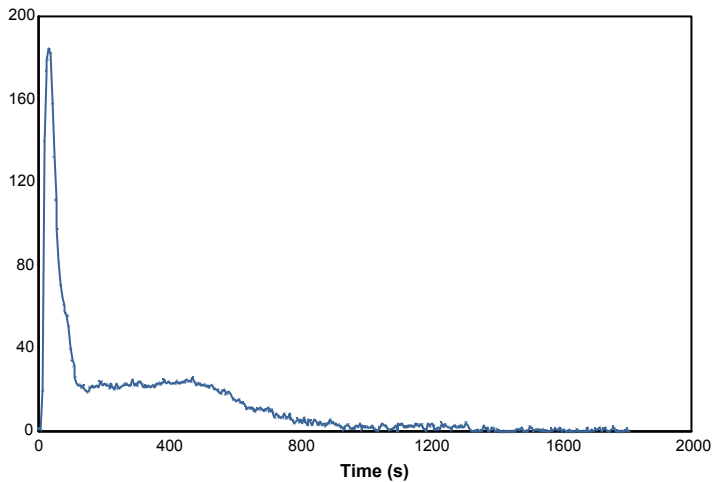
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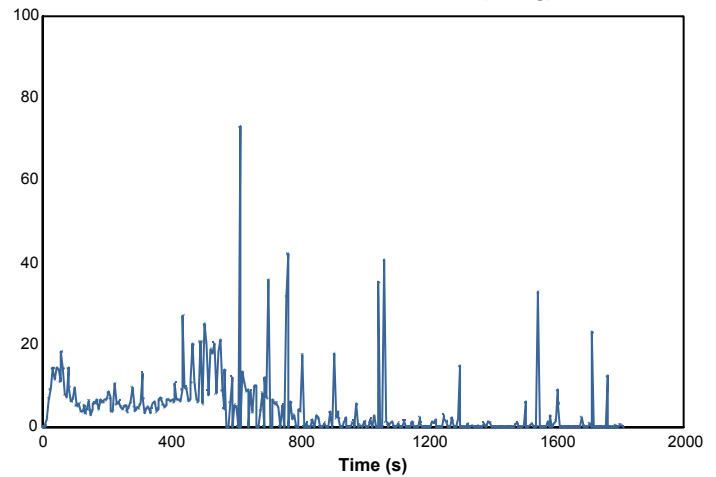
Test Number : 20-002289
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Specimen : 2

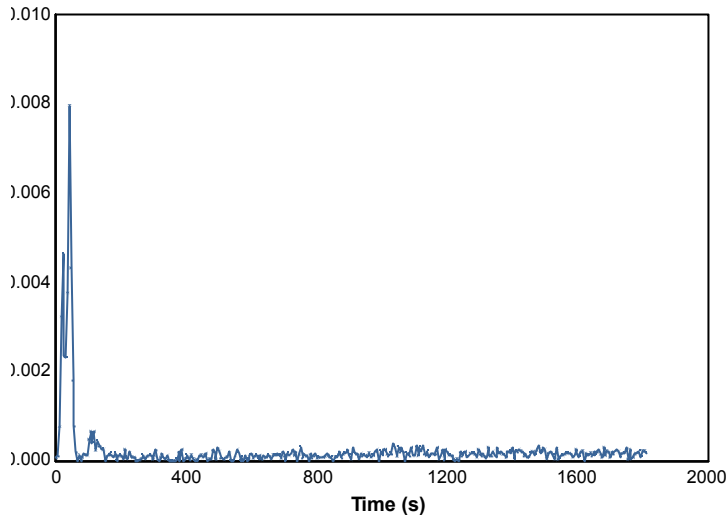
Heat release rate (kW/m²)



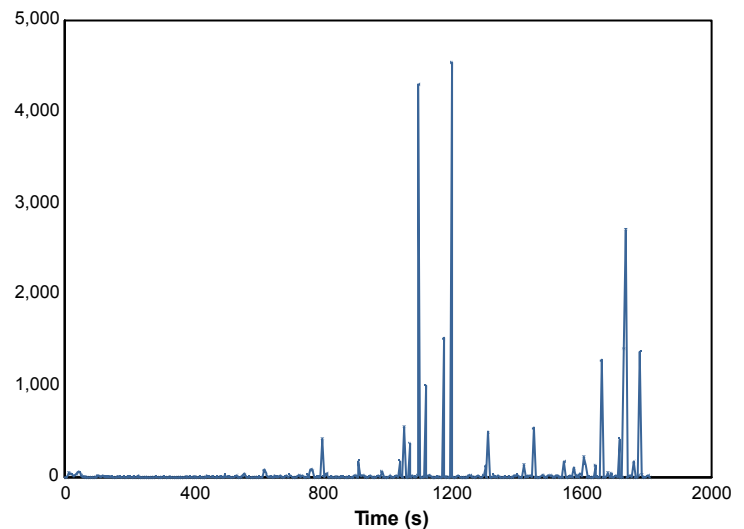
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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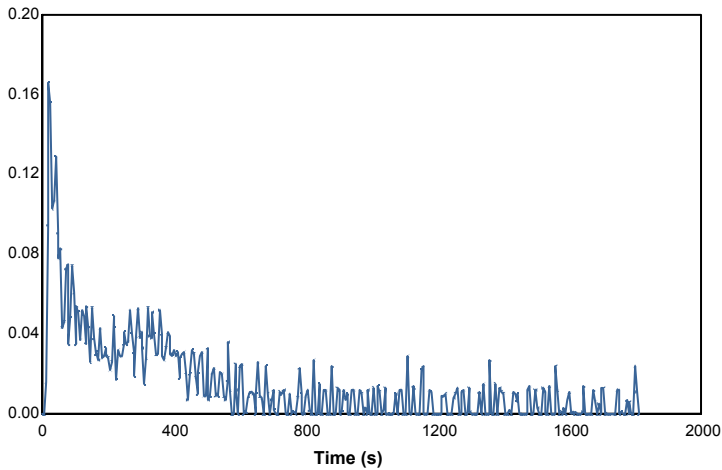
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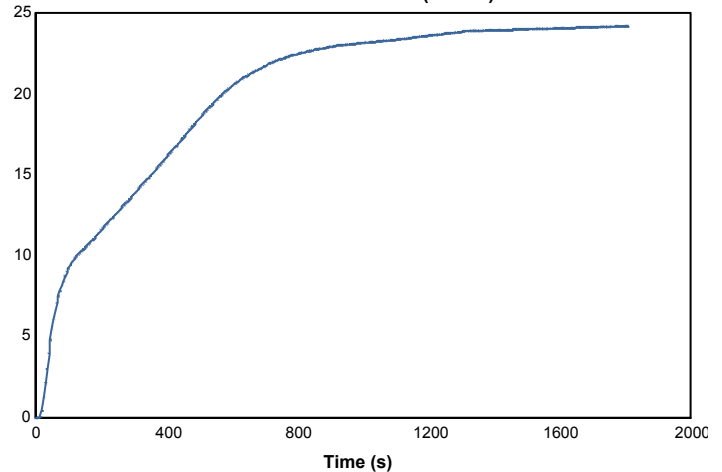
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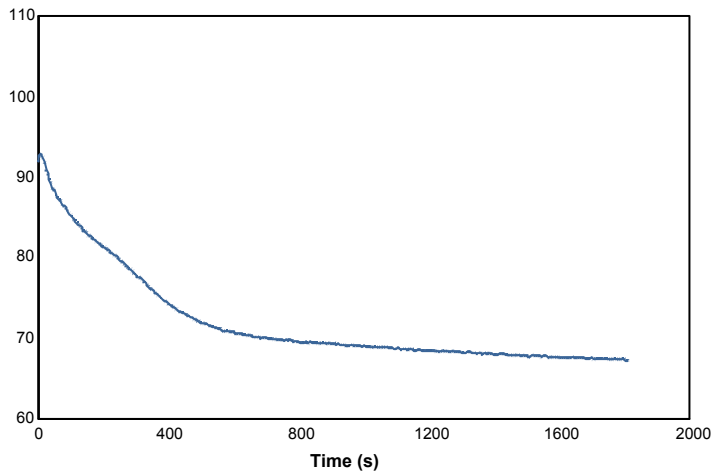
Mass loss rate (g/s)



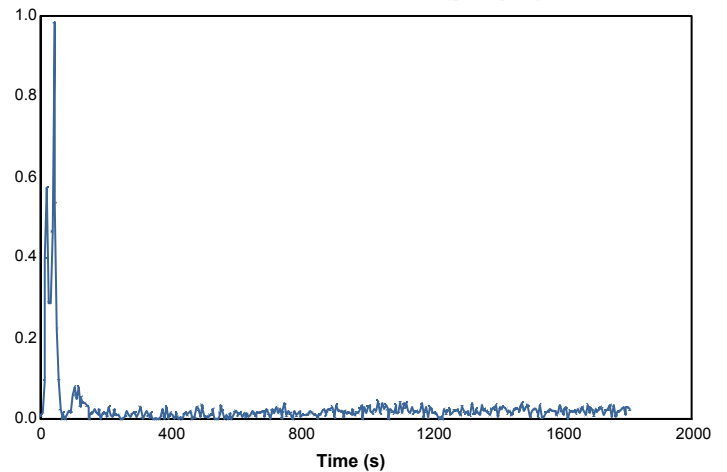
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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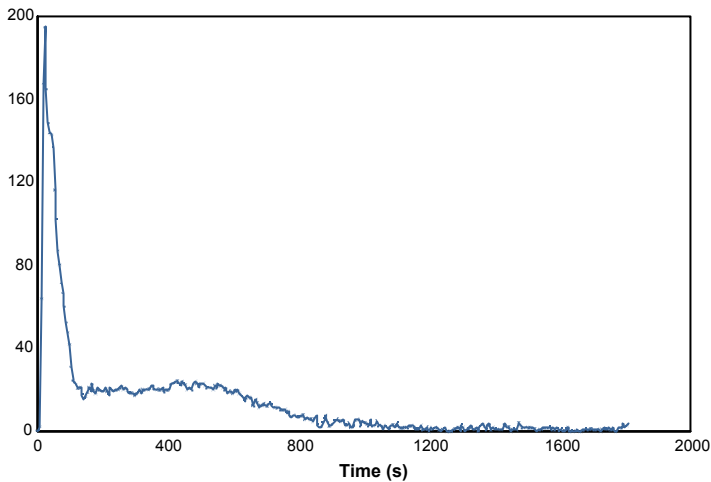
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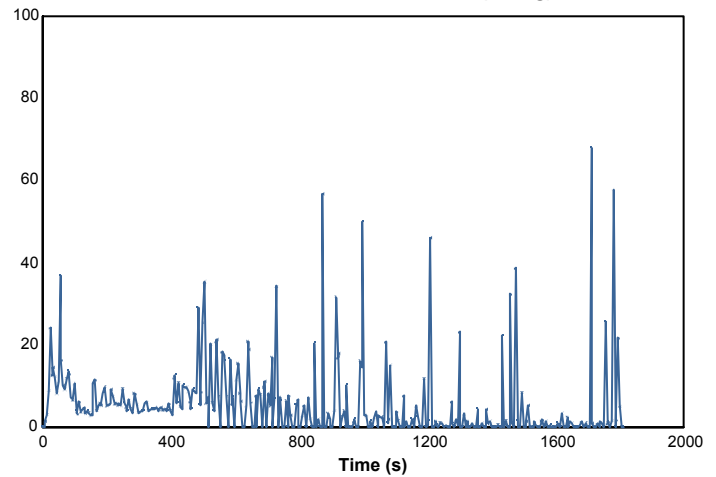
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Specimen : 3

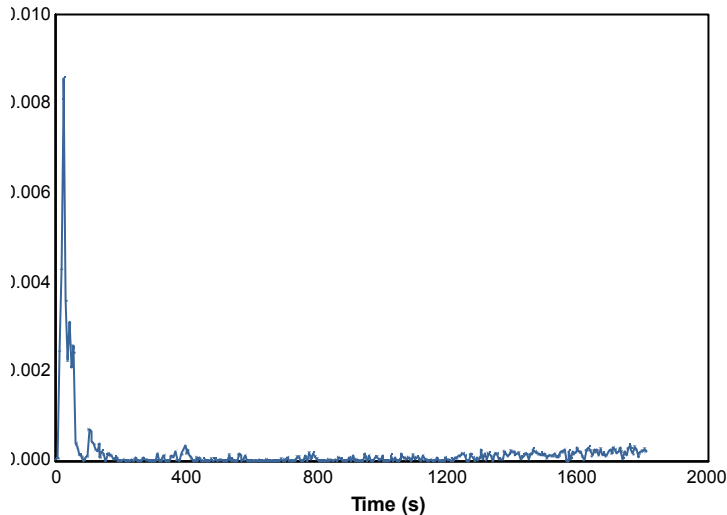
Heat release rate (kW/m²)



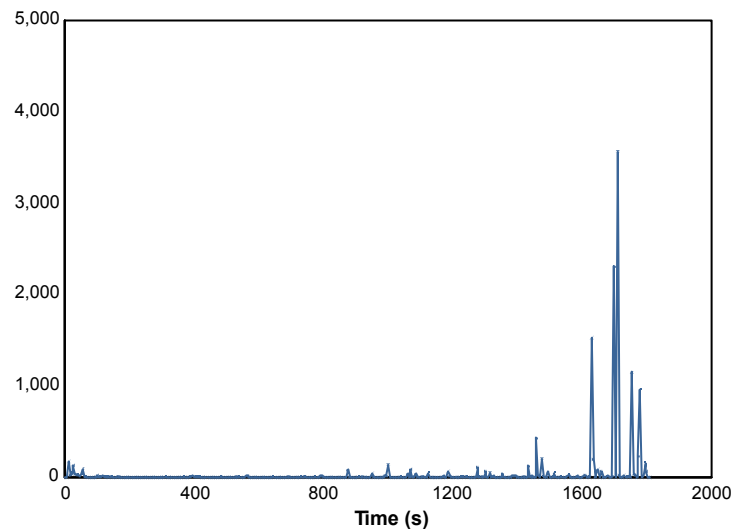
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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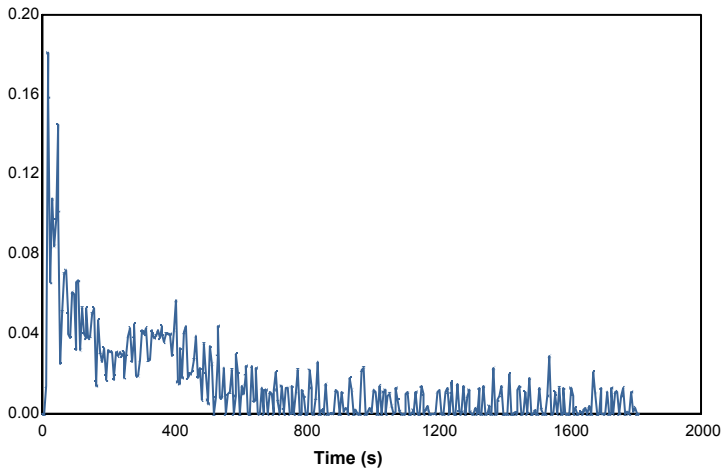
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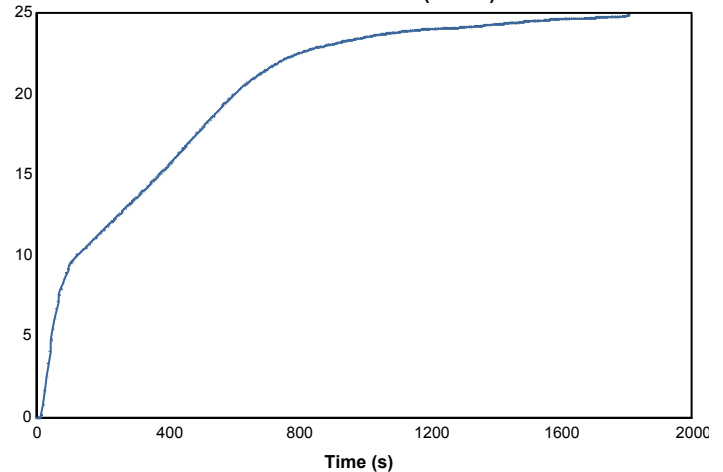
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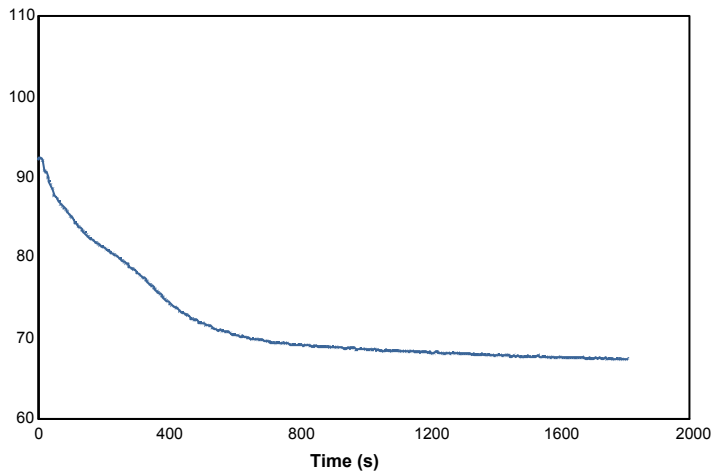
Mass loss rate (g/s)



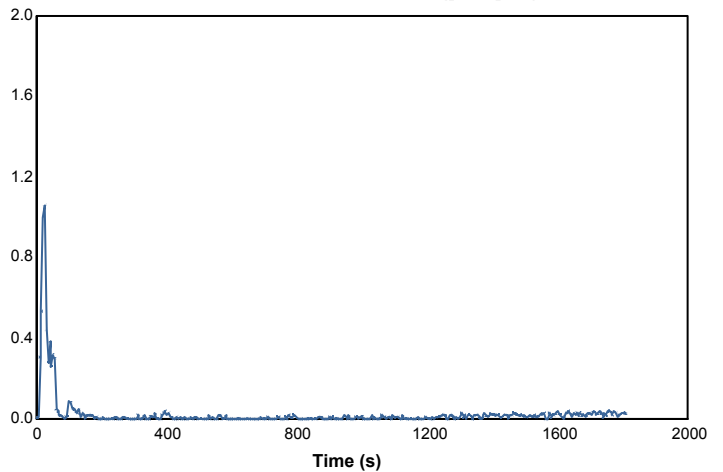
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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