

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 : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 16-003199
Issue Date : 11/07/2016
Print Date : 12/07/2016
Order Number : 2080

Sample Description Clients Ref : "Sample 19060: Finished Natural Timber Vener (FNTV)"
Timber Veneer
Nominal Composition : Natural wood veneer with melamine coating
Nominal Mass per Unit Area/Density : 820kg/m³
Nominal Thickness : 19mm

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	94.4	96.5	92.3	94.4	kW/m ²
Group Number Classification	3	3	3		
(In Accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)					
Average Specific extinction area	18.2	19.6	16.9	18.2	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	26	21	35	27	sec
Test duration	1826	1821	1835	1827	sec

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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Peak heat release after ignition	157.5	158.1	153.0	156.2	kW/m ²
Average heat at 60 s	128.2	121.3	102.8	117.4	kW/m ²
Average heat at 180 s	118.6	109.1	112.4	113.4	kW/m ²
Average heat at 300 s	122.4	116.0	118.9	119.1	kW/m ²
Total heat released	170.0	173.5	166.2	169.9	MJ/m ²
Average effective heat of combustion	11.9	12.1	11.5	11.8	MJ/kg
Initial thickness	19.0	19.0	19.0	19.0	mm
Initial mass	154.4	154.8	155.1	154.8	g
Mass remaining	37.9	38.1	37.8	37.9	g
Mass percentage pyrolysed	75.4	75.4	75.7	75.5	%
Mass loss	116.5	116.7	117.3	116.8	g
Average rate of mass loss	8.0	8.0	8.0	8.0	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.

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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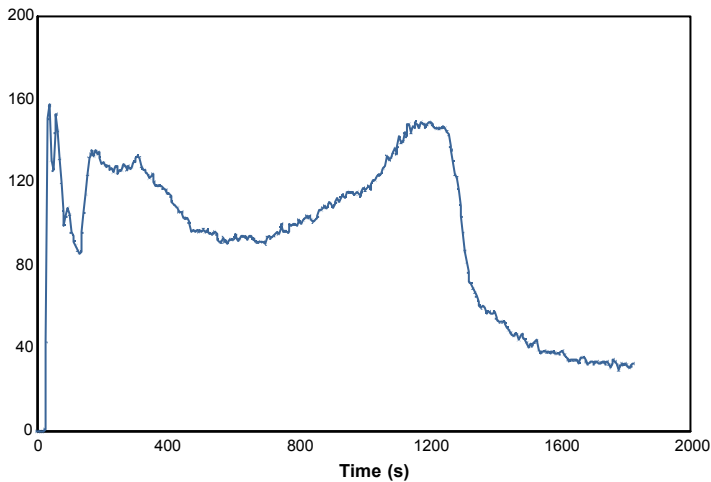
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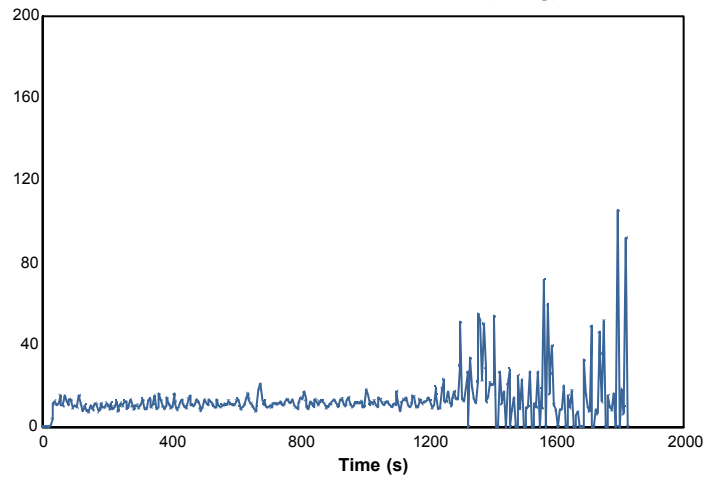
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Specimen : 1

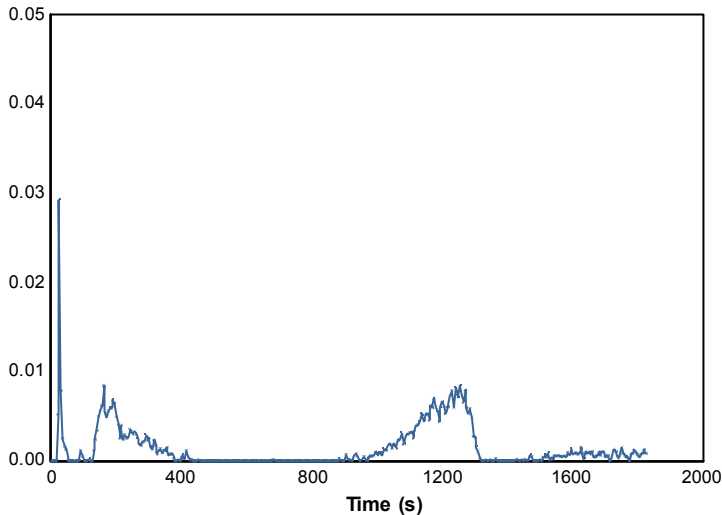
Heat release rate (kW/m²)



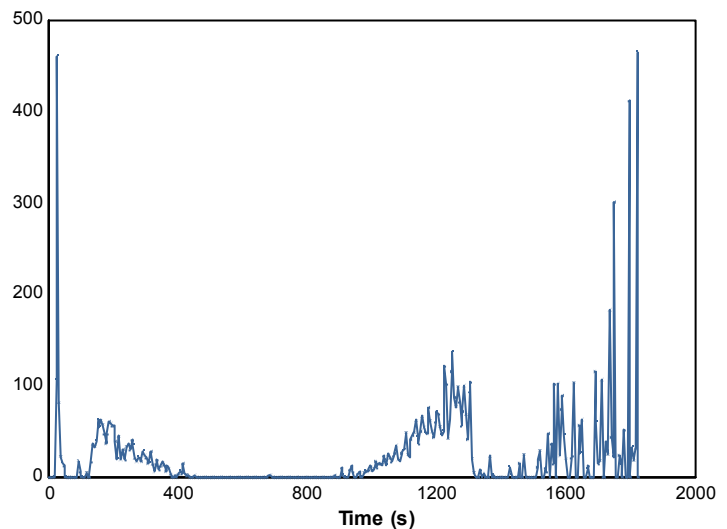
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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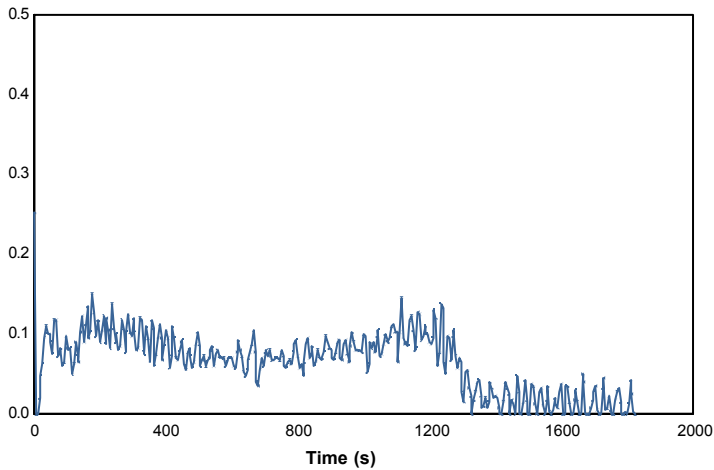
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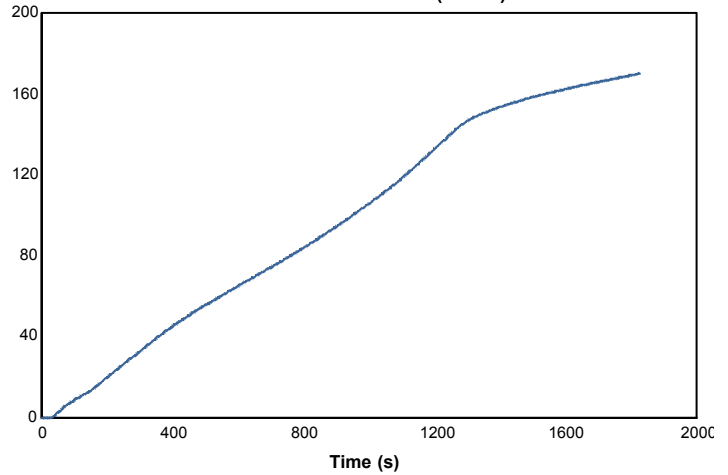
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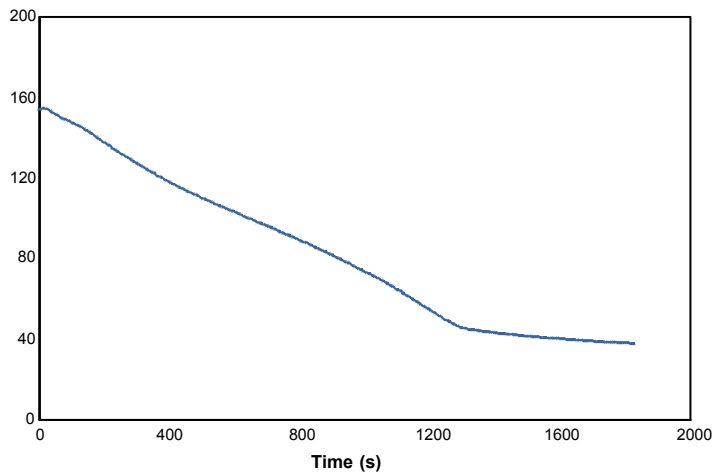
Mass loss rate (g/s)



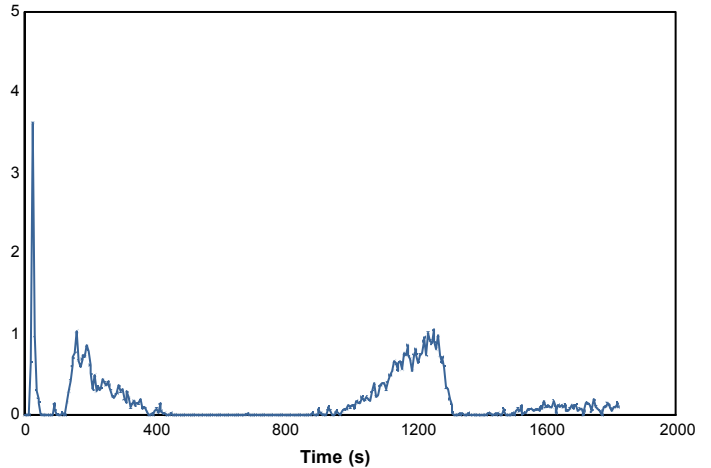
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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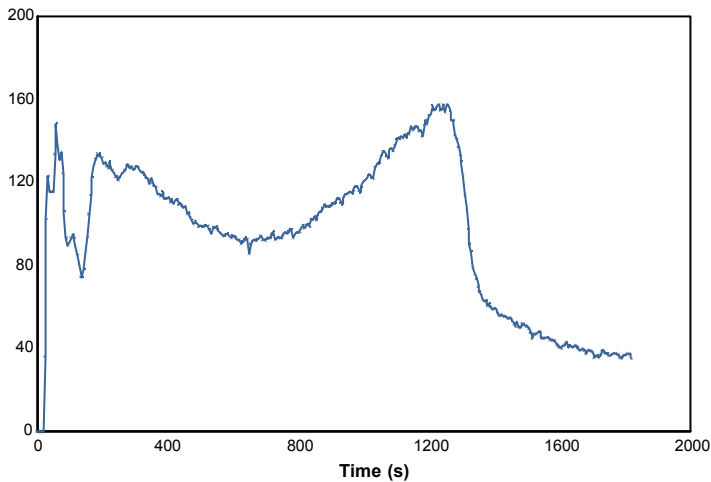
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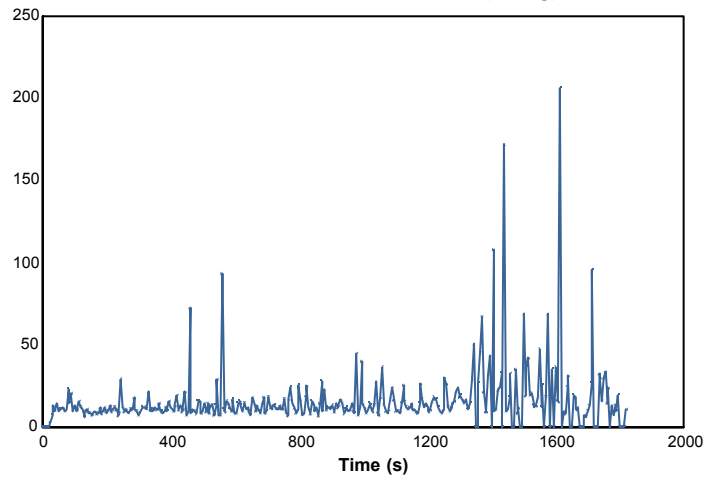
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Specimen : 2

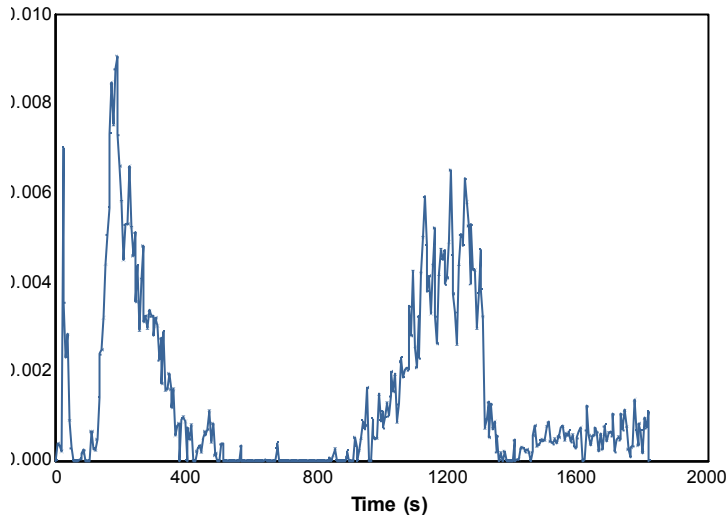
Heat release rate (kW/m²)



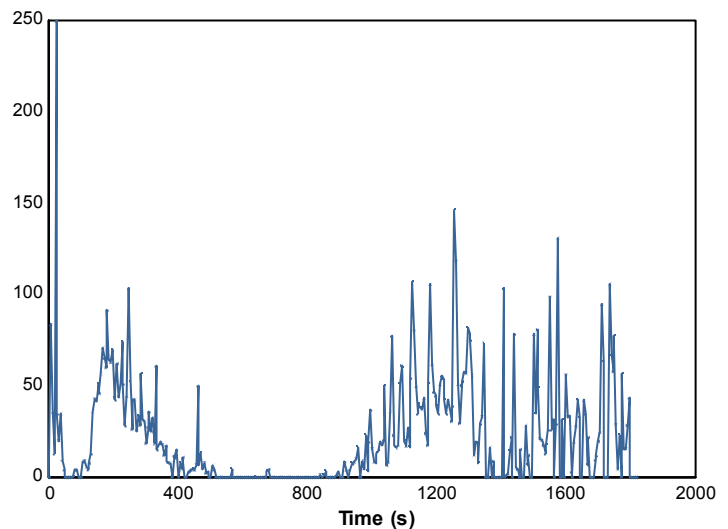
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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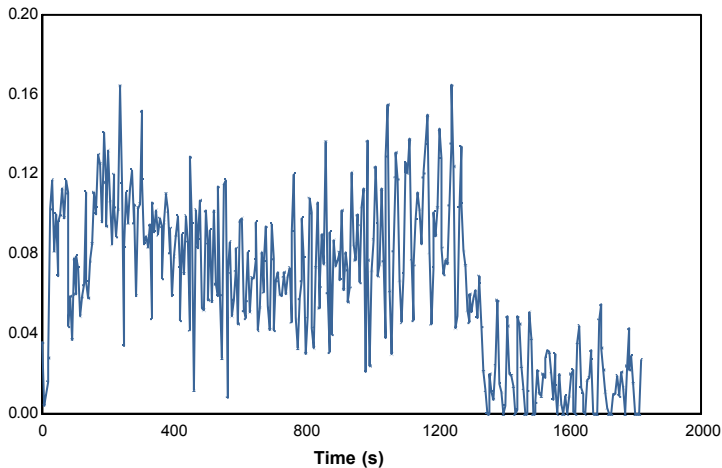
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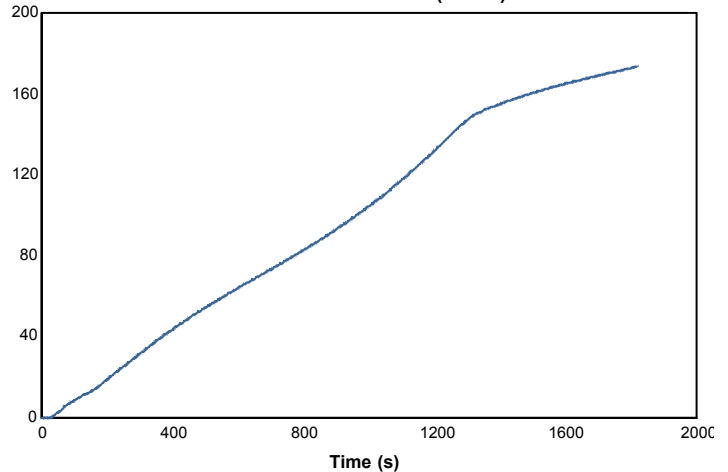
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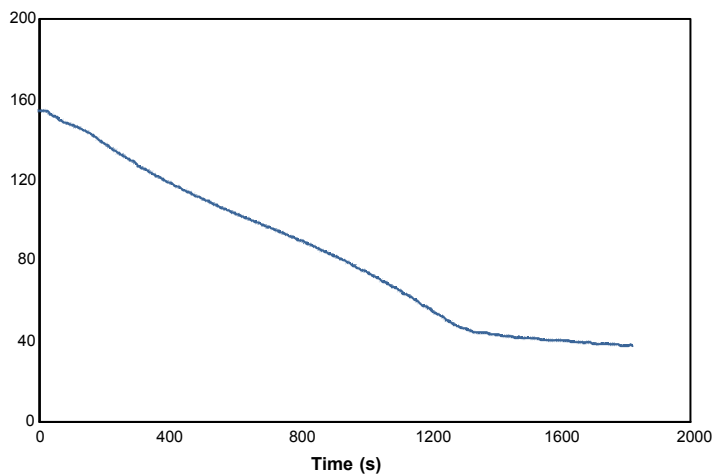
Mass loss rate (g/s)



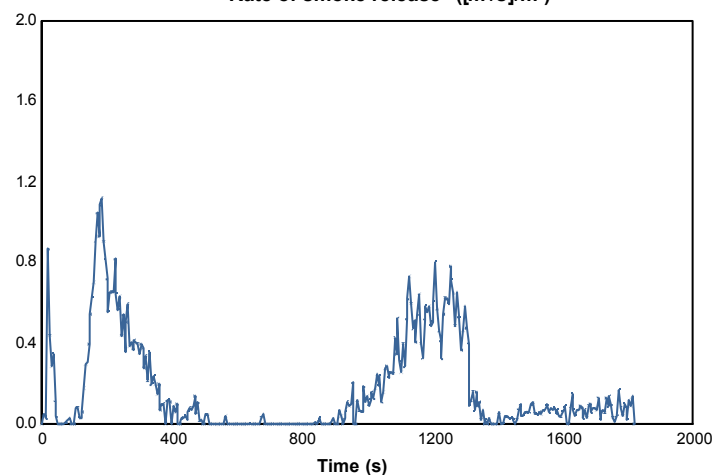
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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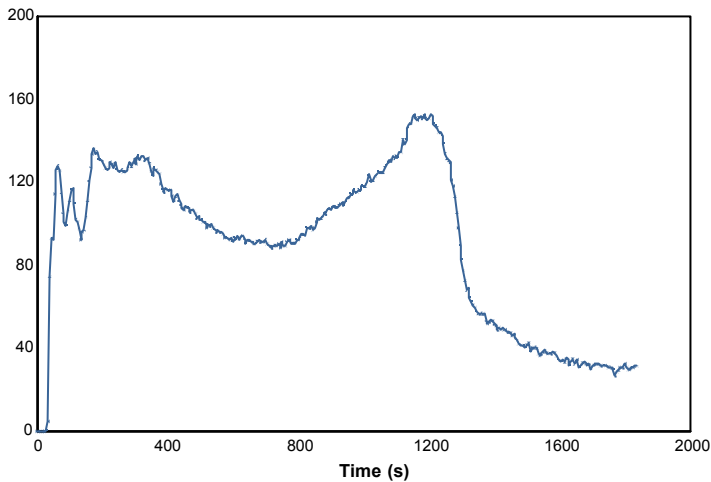
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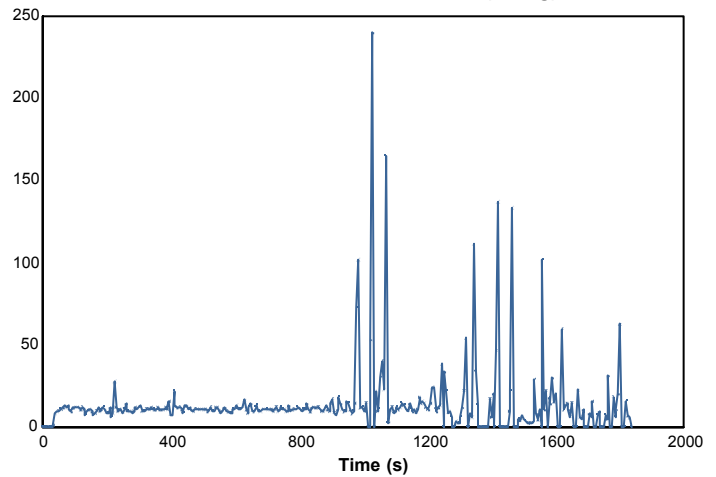
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Specimen : 3

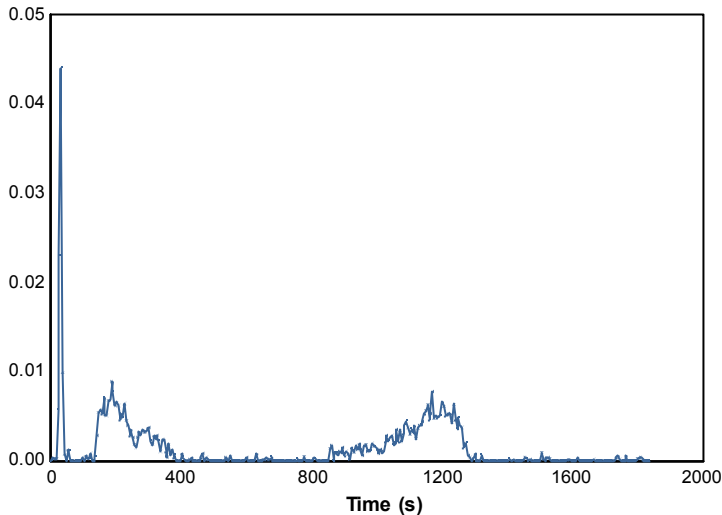
Heat release rate (kW/m²)



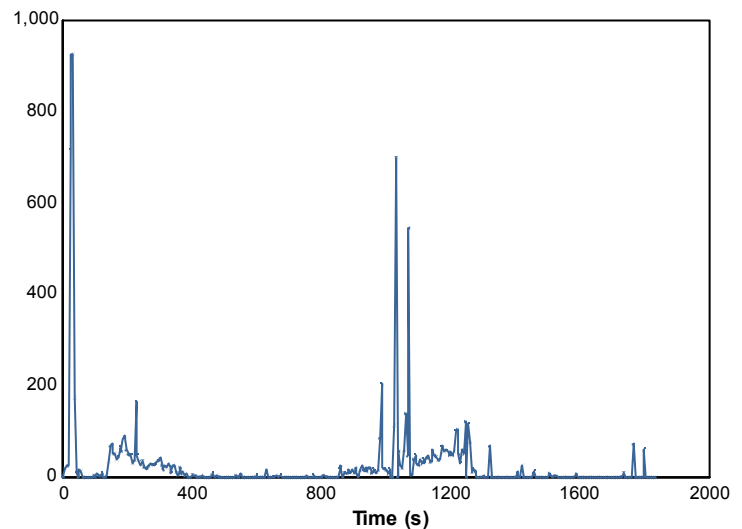
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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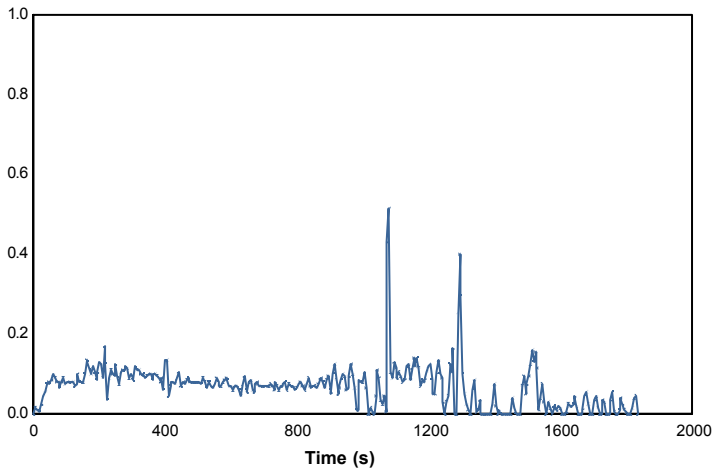
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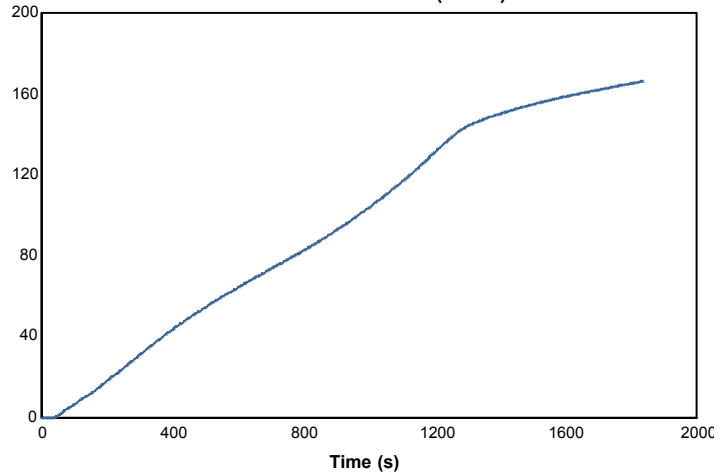
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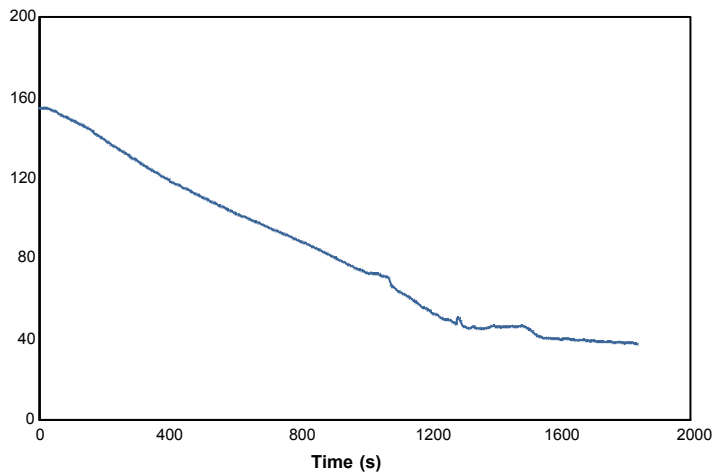
Mass loss rate (g/s)



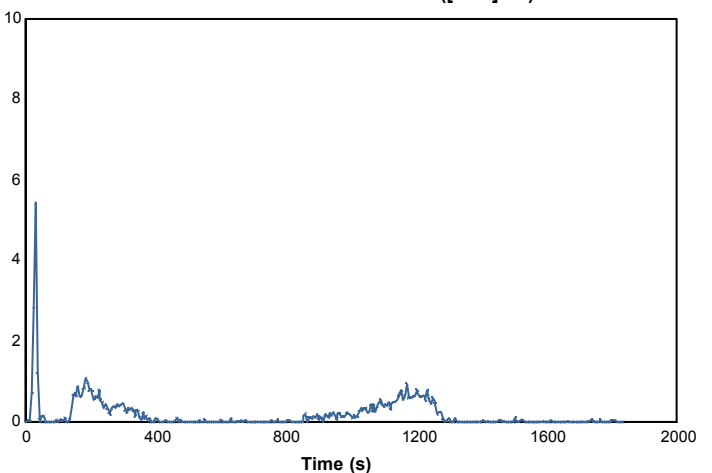
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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