

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

TEST REPORT

Client : Coen Composite Wood
5/33 Vulture Street
West End Brisbane QLD 4101

Test Number : 24-004112
Issue Date : 30/10/2024
Print Date : 6/11/2024

Sample Description

Clients Ref : "Composite Timber Decking"

WPC Decking boards

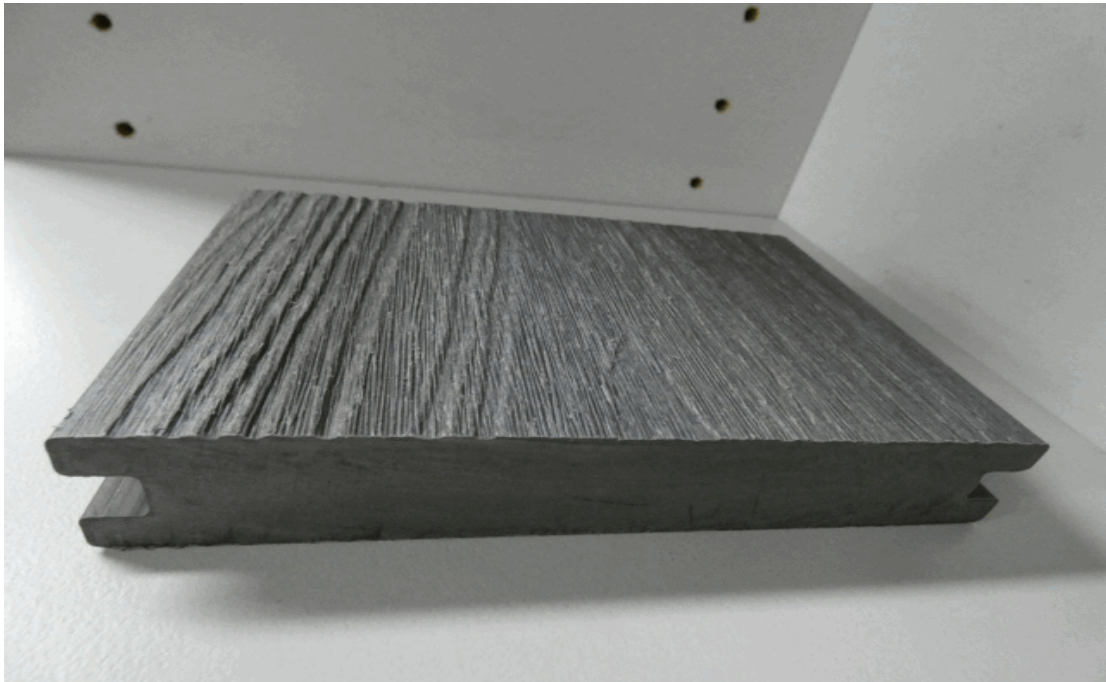
Colour : Grey

End Use : Decking

Nominal Composition : 60% Wood flair, 25% HDPE, 5% Calcium Calcified, 10% Additives

Nominal Mass per Unit Area/Density : 34.7kg/m2

Nominal Thickness : 25mm



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Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald

APPROVED SIGNATORY



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

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AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 30-10-2024
Operator AWTA Test Operator 21
Face Tested Grey

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	53.4	47.1	53.0	51.2	kW/m ²
Average Specific extinction area	83.5	95.6	85.1	88.1	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	25	25	25	25	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	620	559	529	569	sec
Test duration	1220	1159	1129	1169	sec
Peak heat release after ignition	129.9	150.1	148.3	142.8	kW/m ²
Average heat at 60 s	88.7	93.4	65.5	82.5	kW/m ²
Average heat at 180 s	98.2	98.9	99.0	98.7	kW/m ²
Average heat at 300 s	79.5	74.7	78.0	77.4	kW/m ²
Total heat released	32.0	28.2	31.7	30.6	MJ/m ²
Average effective heat of combustion	20.9	22.9	22.8	22.2	MJ/kg
Initial thickness	25	25	25	25.0	mm
Initial mass	348.3	343.1	351.2	347.5	g
Mass remaining	335.9	333.3	340.2	336.4	g
Mass percentage pyrolysed	3.6	2.9	3.1	3.2	%

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Mass loss	1535.7	1210.4	1362.0	1369.4	g/m ²
Average rate of mass loss	2.6	2.1	2.3	2.3	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

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

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 an Irradiance of 25kW/m². All calculations are based on ignition +10 minutes as per AS 3959 Appendix F.

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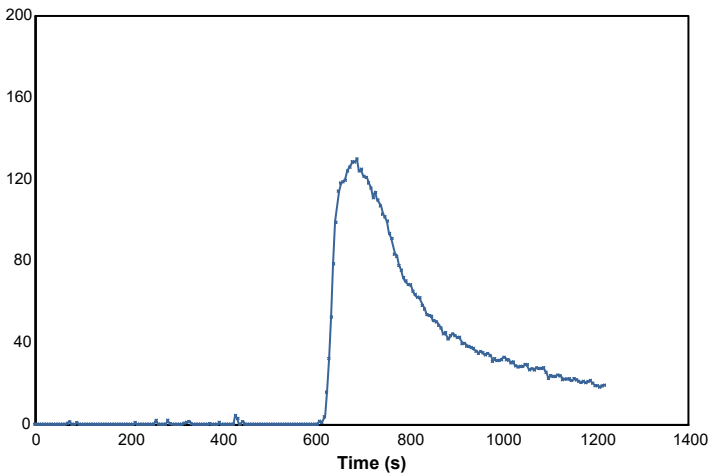
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Client : Coen Composite Wood
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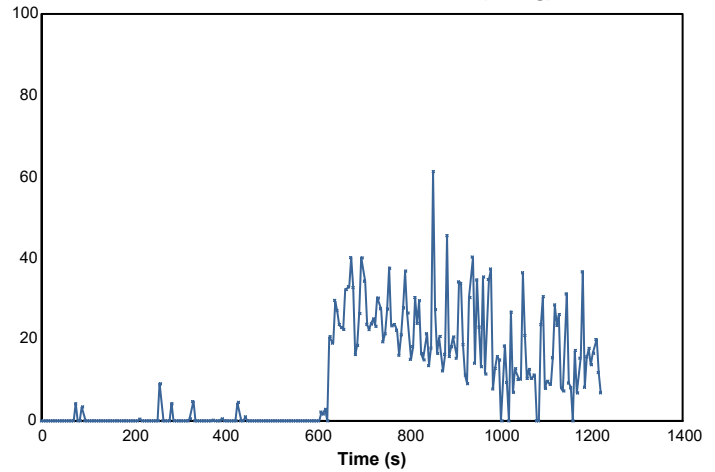
Test Number : 24-004112
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Specimen : 1

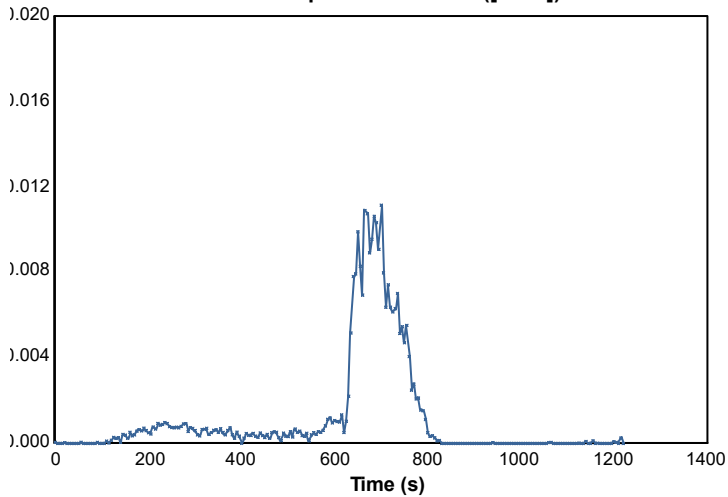
Heat release rate (kW/m²)



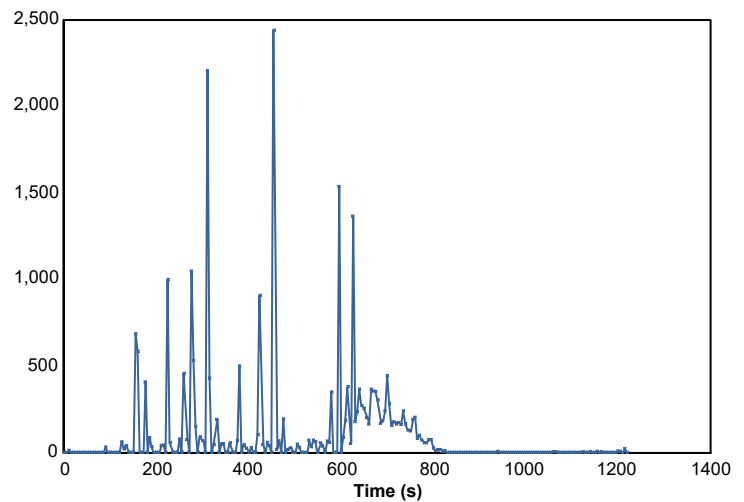
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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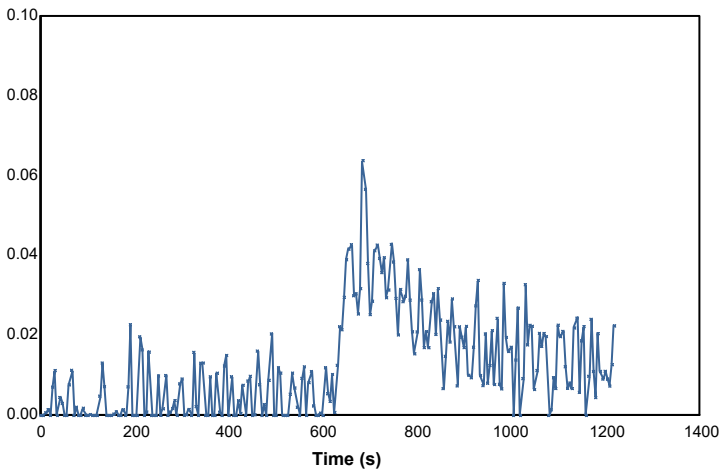
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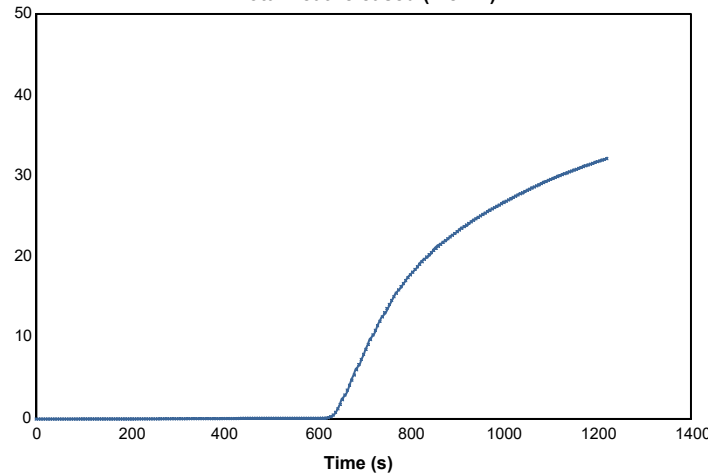
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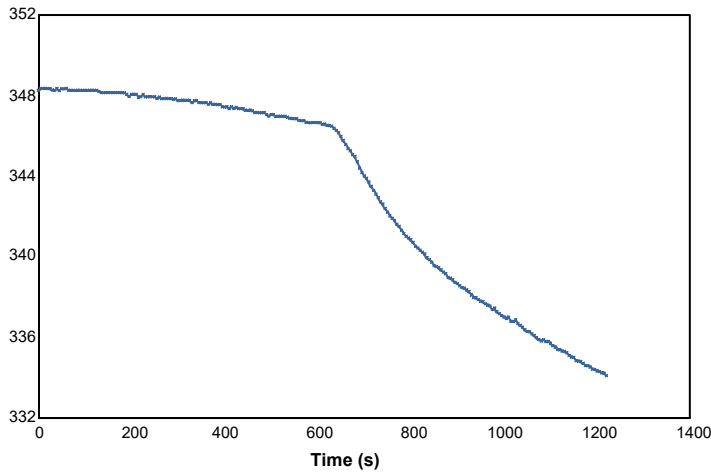
Mass loss rate (g/s)



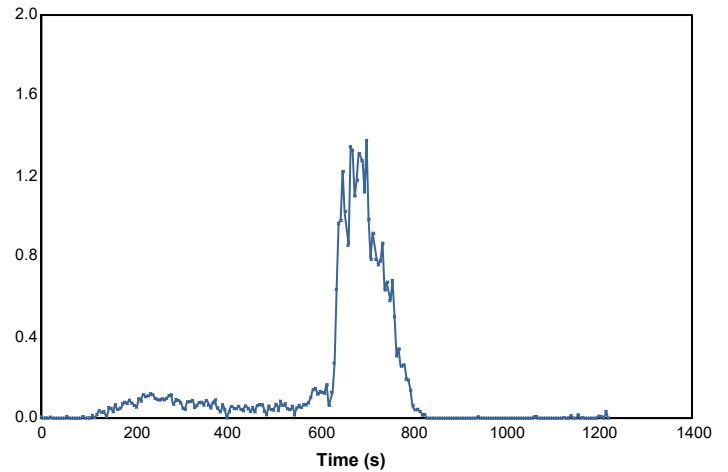
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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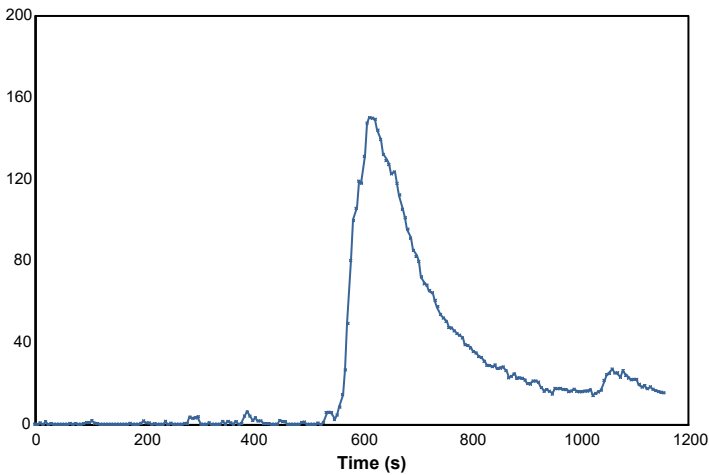
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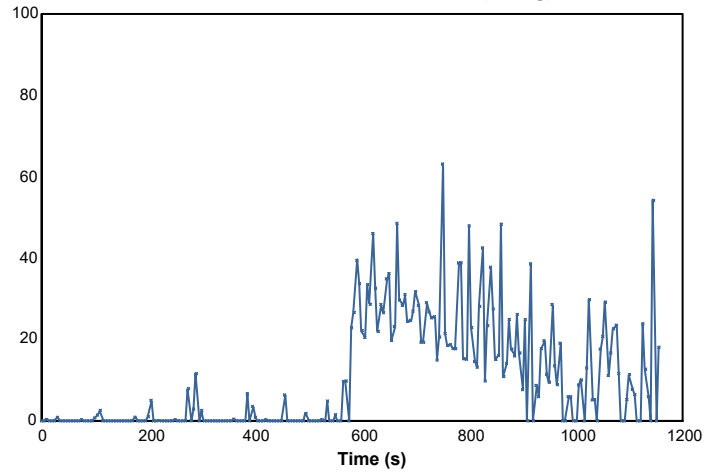
Test Number : 24-004112
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Specimen : 2

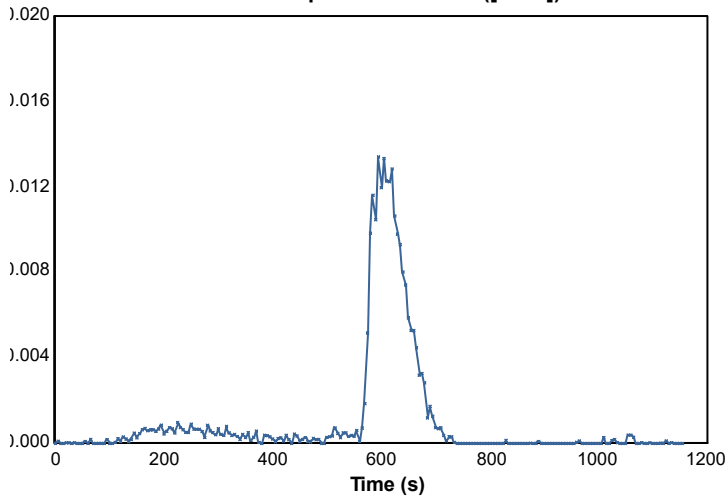
Heat release rate (kW/m²)



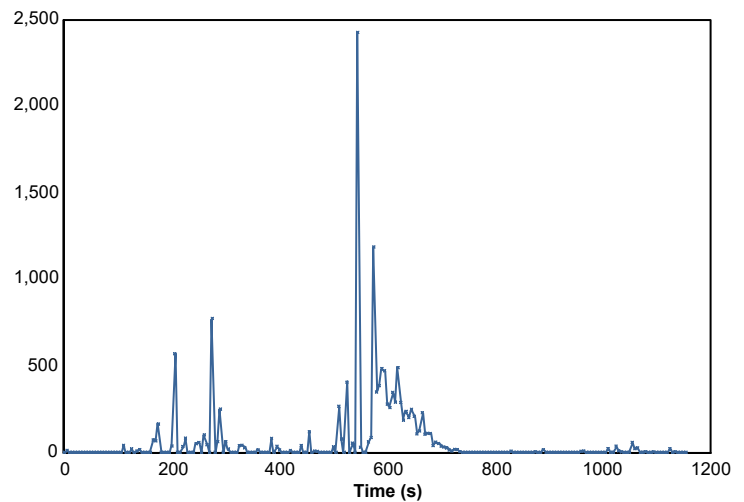
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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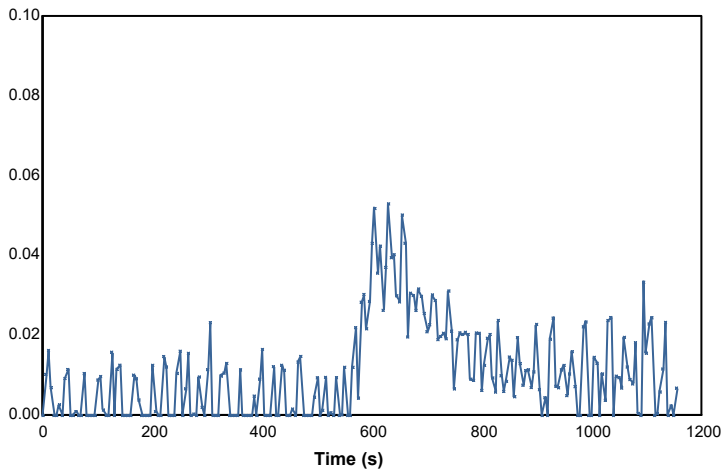
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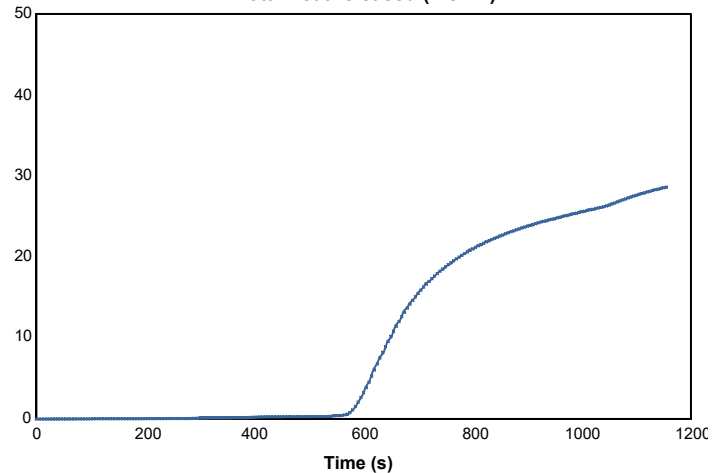
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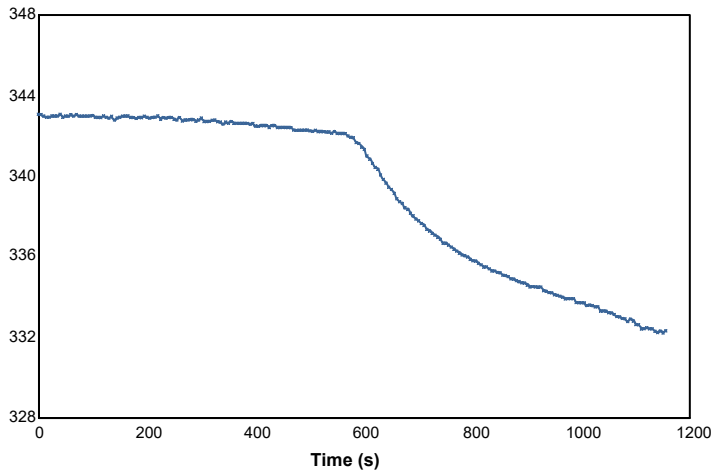
Mass loss rate (g/s)



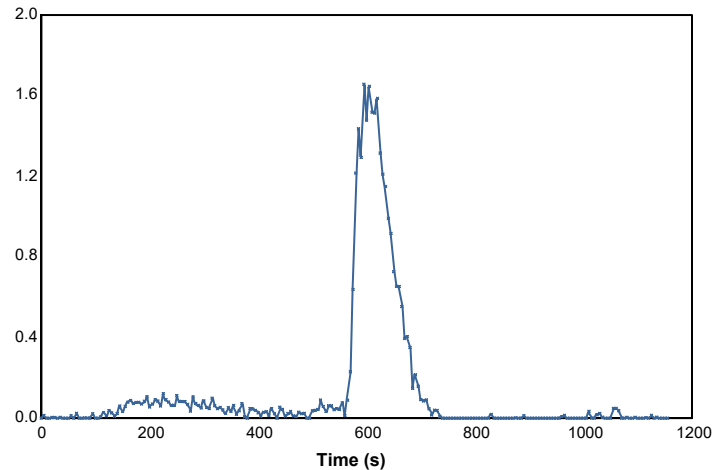
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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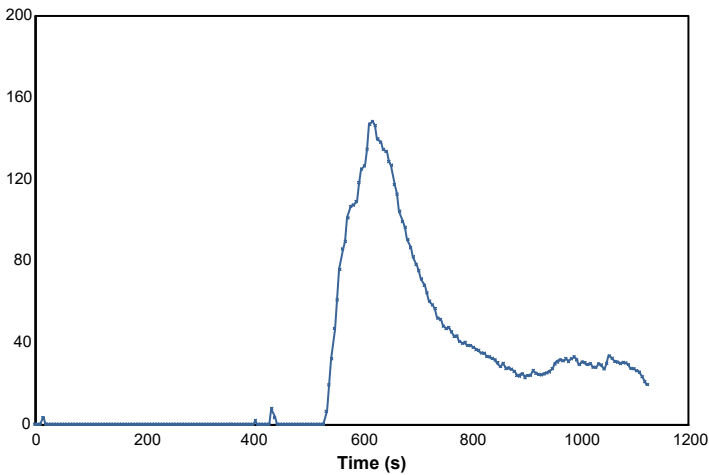
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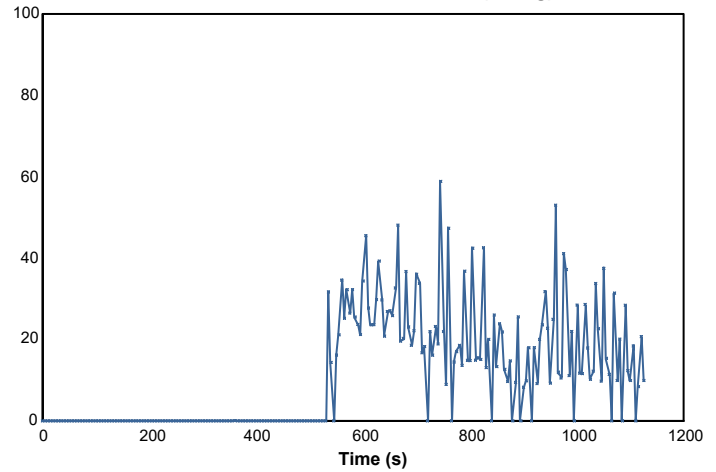
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Specimen : 3

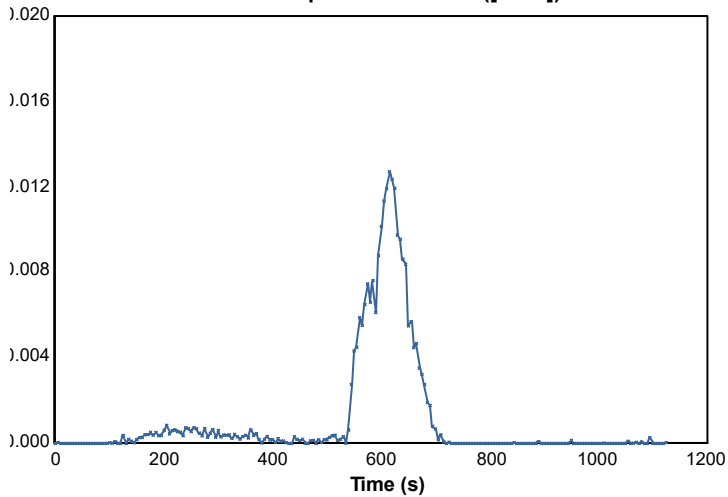
Heat release rate (kW/m²)



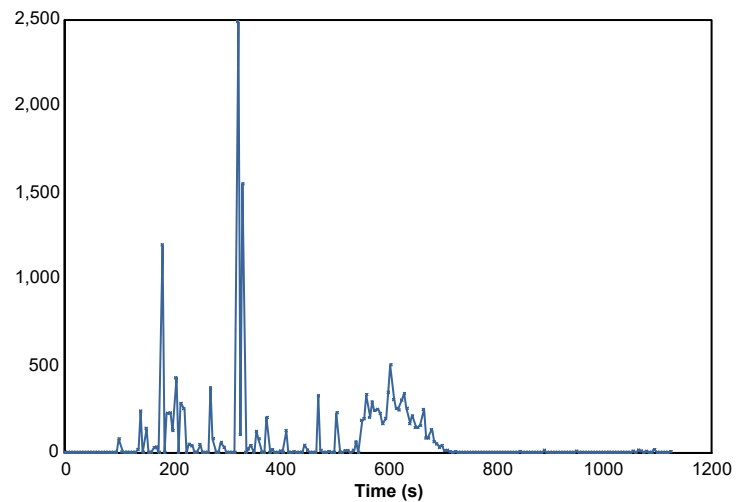
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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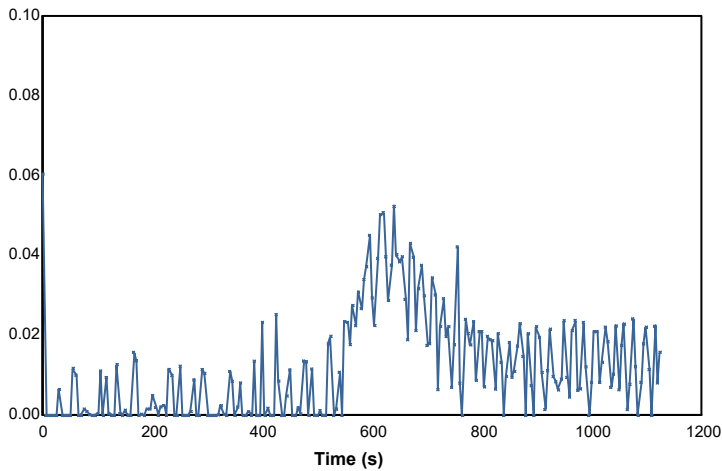
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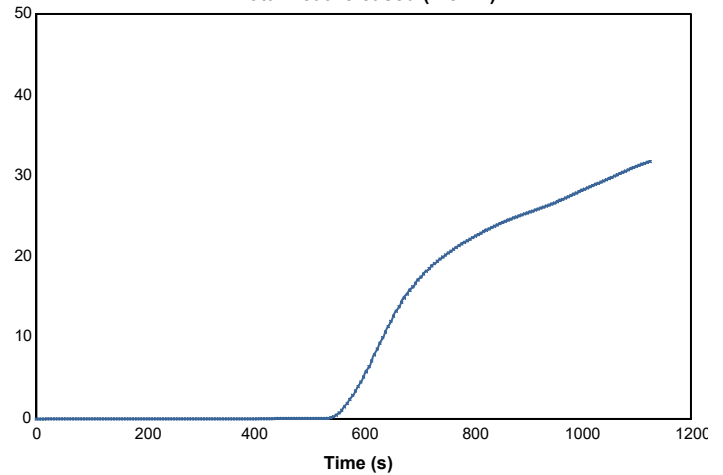
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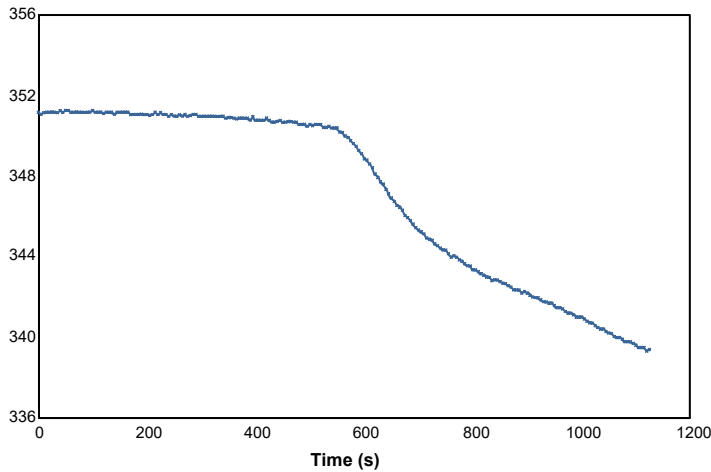
Mass loss rate (g/s)



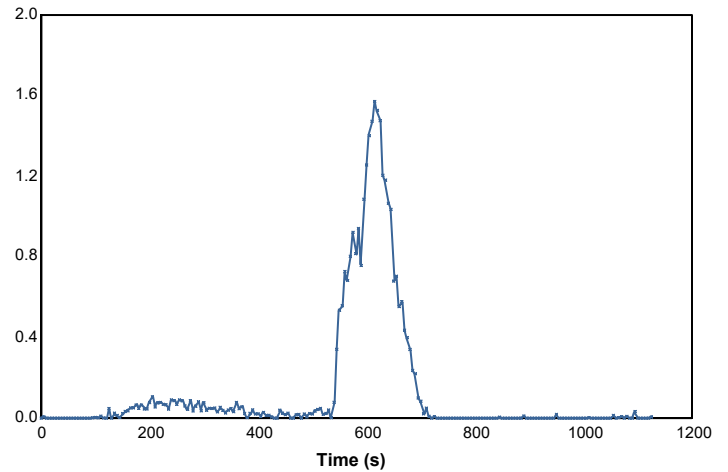
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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