

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 : Pavezzi Pty Ltd
164 Hoddle Street
Abbotsford VIC 3067

Test Number : 24-002970
Issue Date : 06/08/2024
Print Date : 9/08/2024

Sample Description

Clients Ref : "Pavezzi Ressisto Finesse 144 Cladding"

Rigid hollow double wall panel

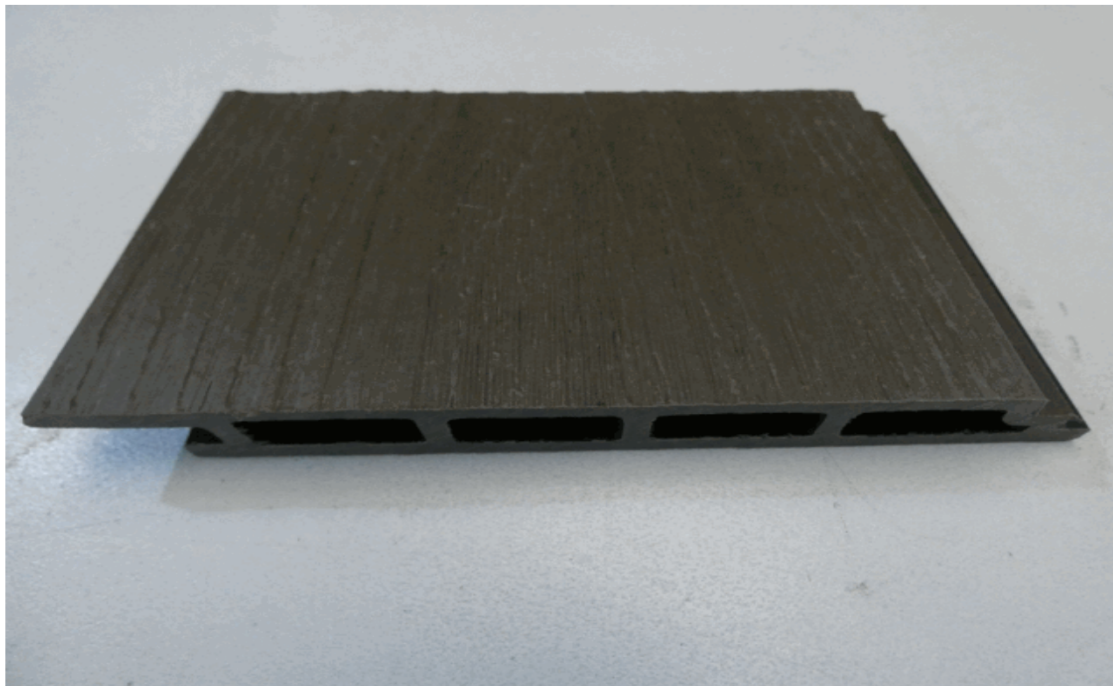
Colour : Brown

End Use : Wall and Ceiling Lining

Nominal Composition : 60% Wood fibre, 20% HDPE, 15% Talcum Powder, 5% Additives

Nominal Mass per Unit Area/Density : 1380kg/m³

Nominal Thickness : 18mm



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Chris Campbell

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 06-08-2024
Operator AWTA Test Operator 8
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	73.0	77.9	82.5	77.8	kW/m ²
Average Specific extinction area	96.7	78.3	87.1	87.3	m ² /kg

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

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	73	54	65	64	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	336.5	304.8	351.9	331.1	kW/m ²
Average heat at 60 s	219.1	193.0	228.3	213.4	kW/m ²
Average heat at 180 s	188.8	187.1	195.4	190.5	kW/m ²
Average heat at 300 s	163.7	161.5	170.8	165.3	kW/m ²
Total heat released	257.5	276.2	291.6	275.1	MJ/m ²
Average effective heat of combustion	24.9	27.1	28.4	26.8	MJ/kg
Initial thickness	18	18	18	18.0	mm
Initial mass	142.3	145.4	143	143.6	g
Mass remaining	58.6	63.0	59.8	60.5	g
Mass percentage pyrolysed	58.8	56.7	58.2	57.9	%

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Mass loss	10.3	10.2	10.3	10.3	kg/m ²
Average rate of mass loss	2.9	2.9	2.9	2.9	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Compliance to AS 3959.1.2018, Appendix F2 "Bushfire Resistant Timber"

Complies

Requirement : Peak heat release rate 100 kW/m² Maximum
Average heat release rate for 10 minutes following ignition shall not be greater than 60 kw/m²

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

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

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

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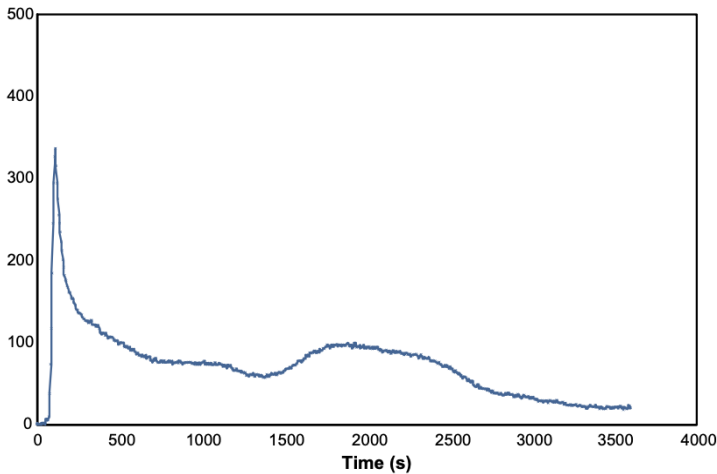
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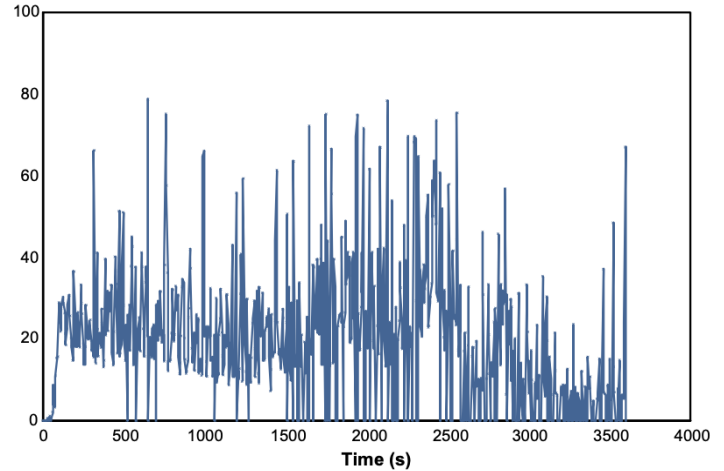
Test Number : 24-002970
Issue Date : 06/08/2024
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Specimen : 1

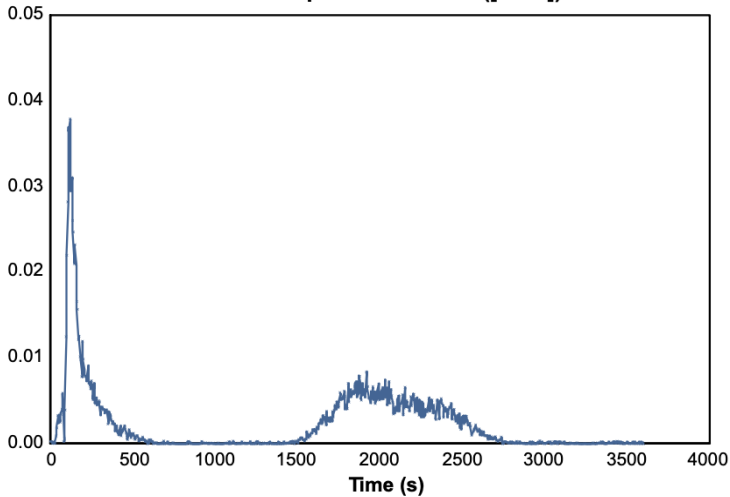
Heat release rate (kW/m²)



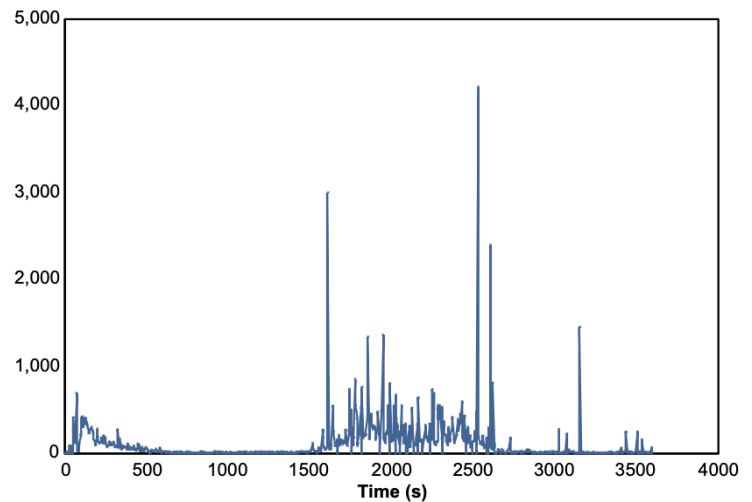
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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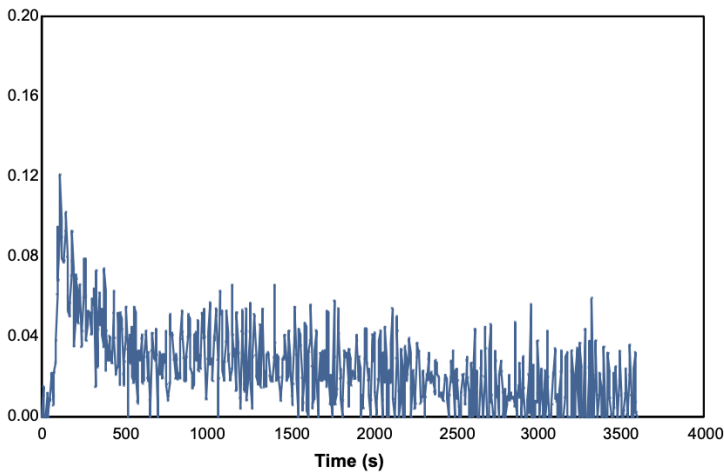
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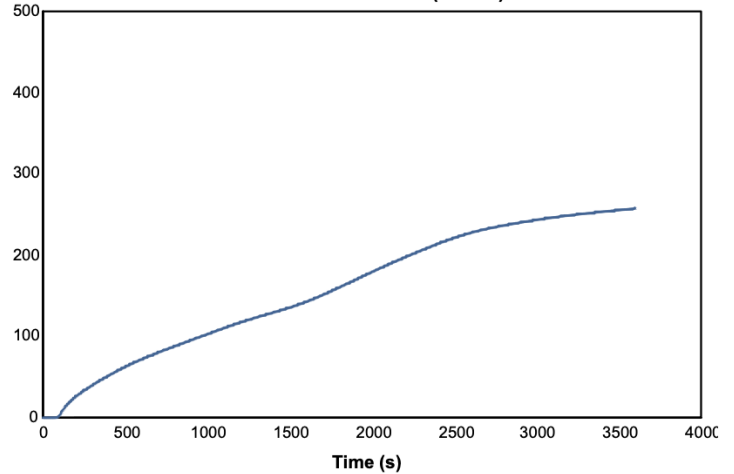
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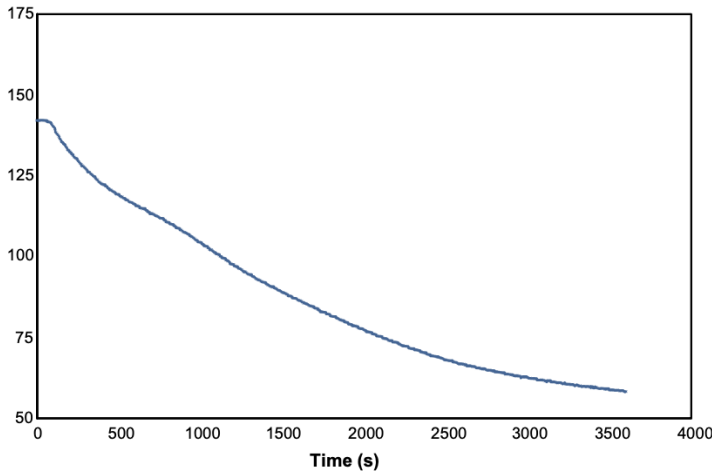
Mass loss rate (g/s)



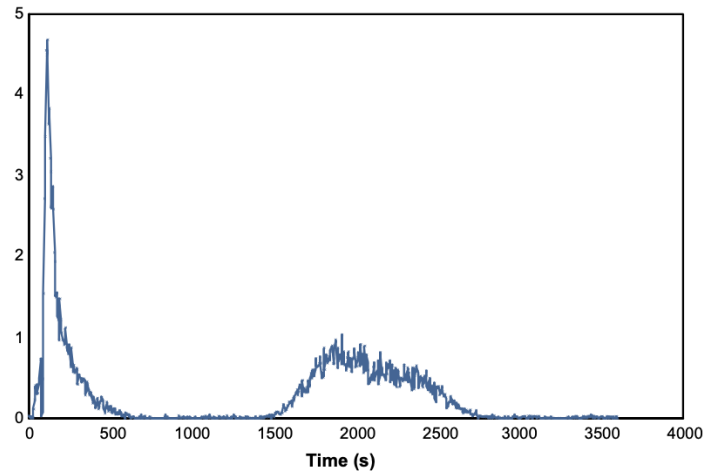
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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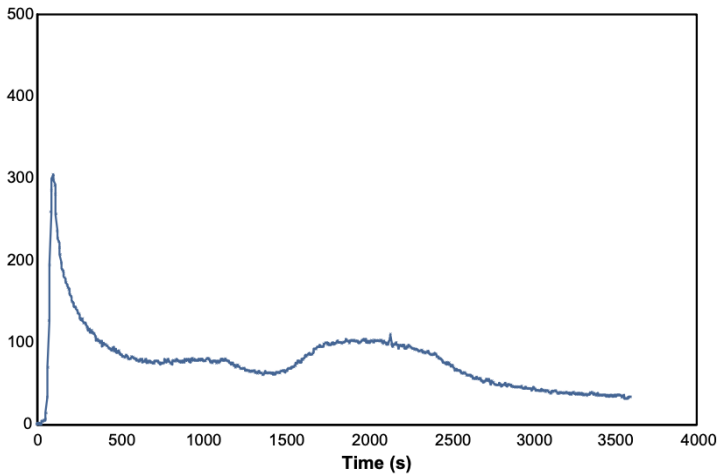
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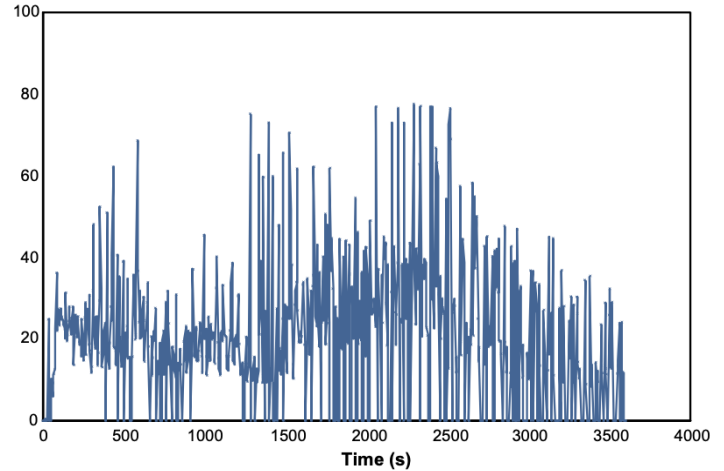
Test Number : 24-002970
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Specimen : 2

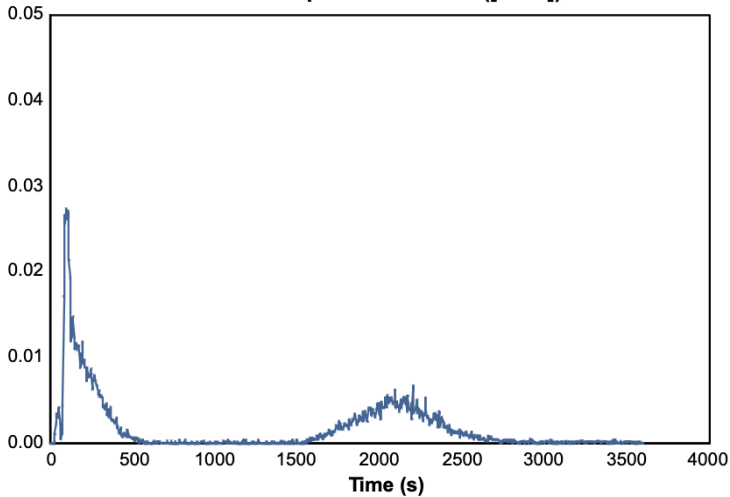
Heat release rate (kW/m²)



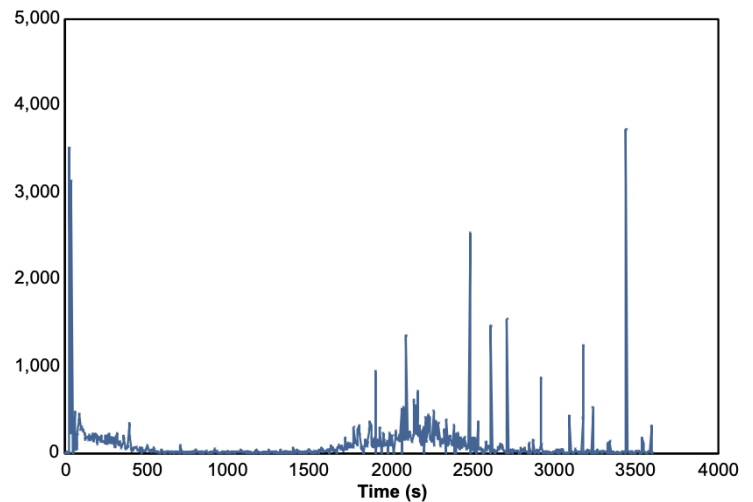
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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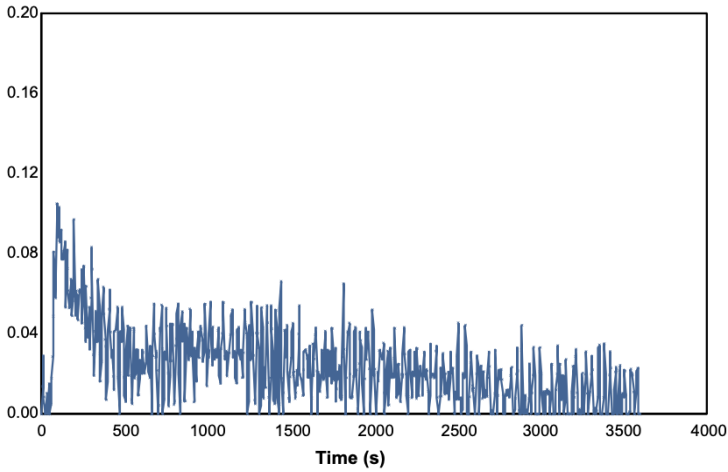
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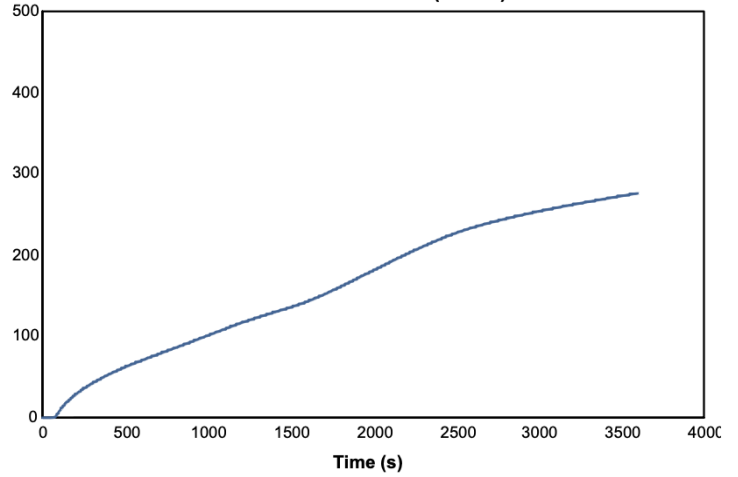
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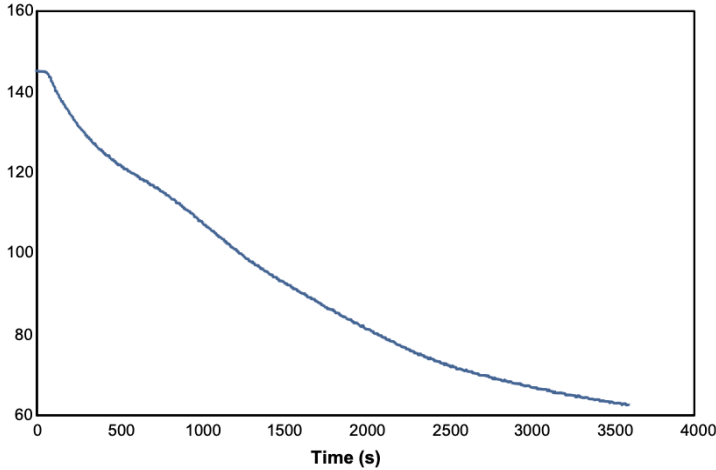
Mass loss rate (g/s)



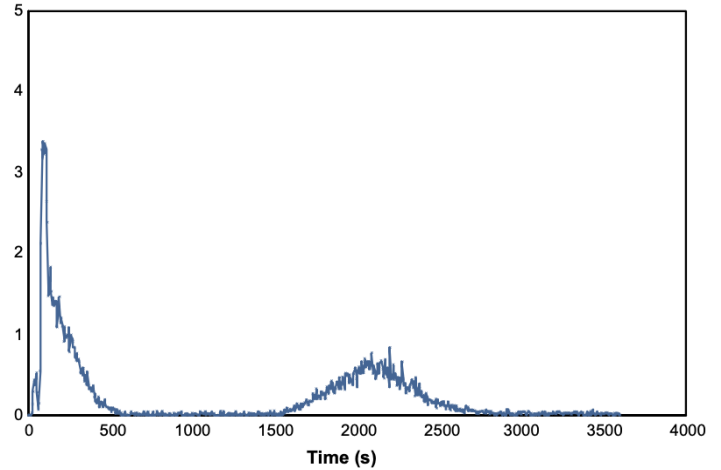
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m³/s]/m²)



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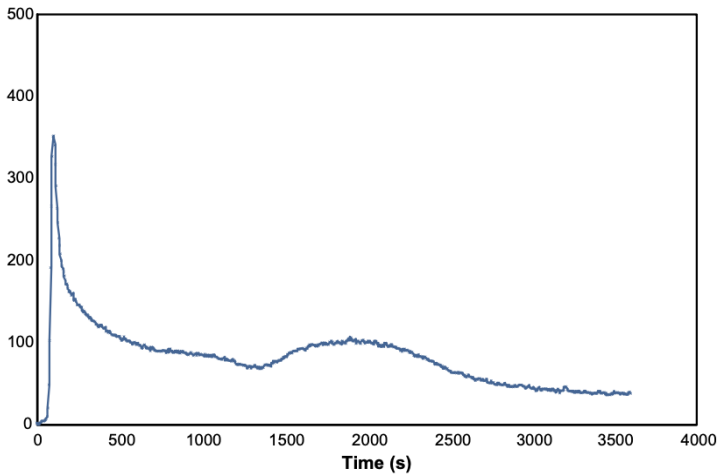
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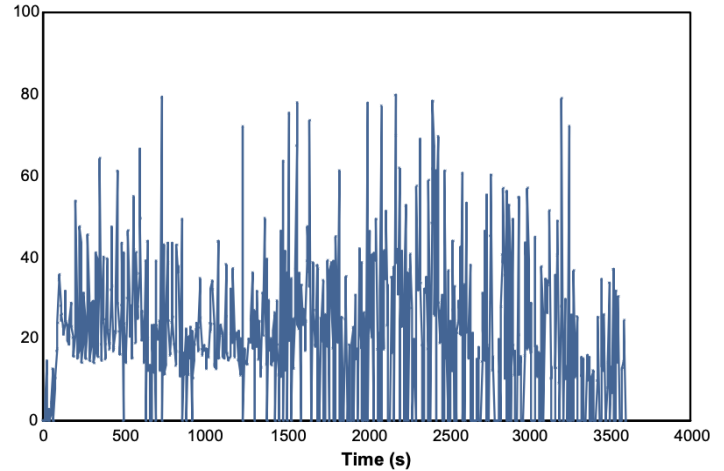
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Specimen : 3

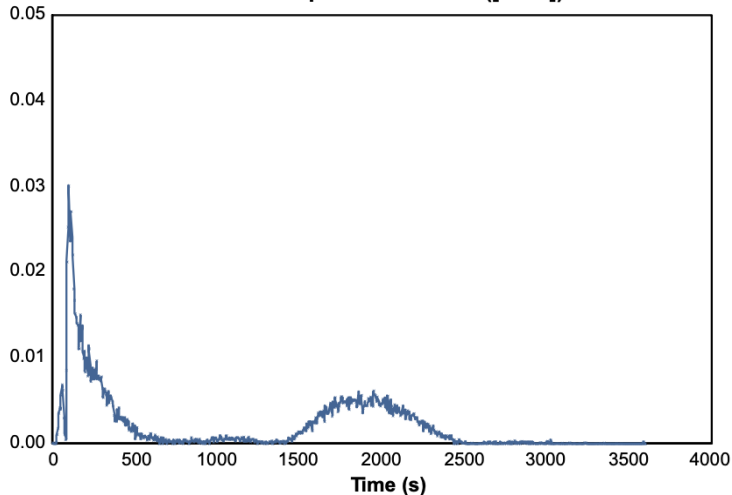
Heat release rate (kW/m²)



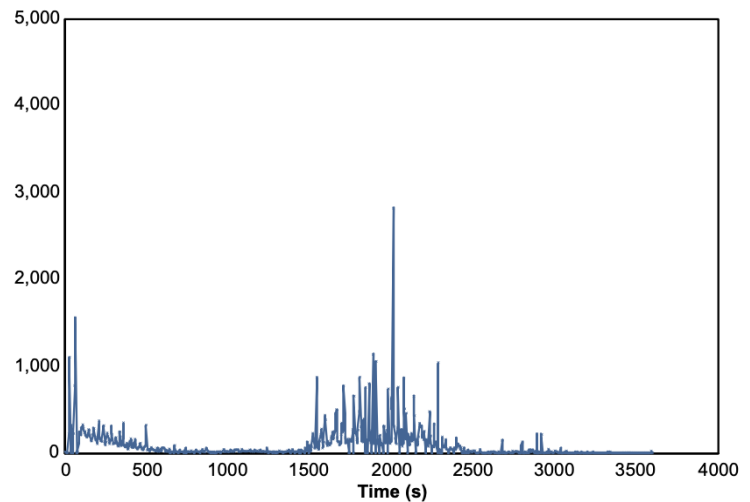
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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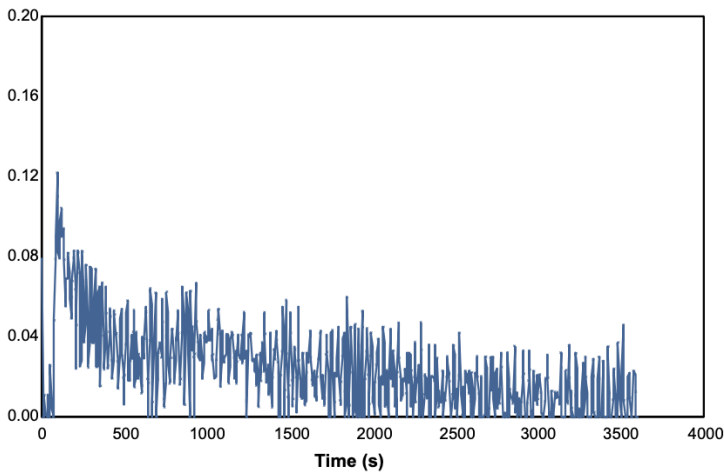
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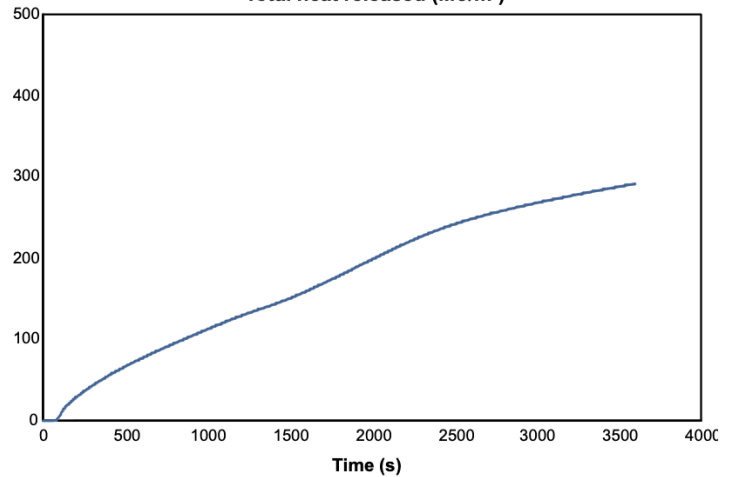
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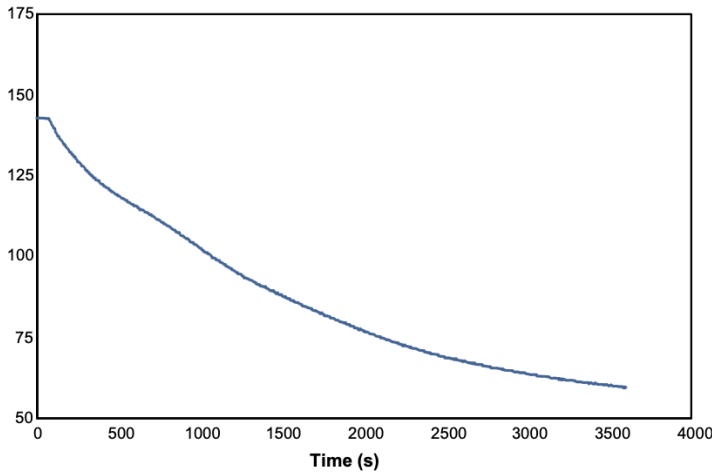
Mass loss rate (g/s)



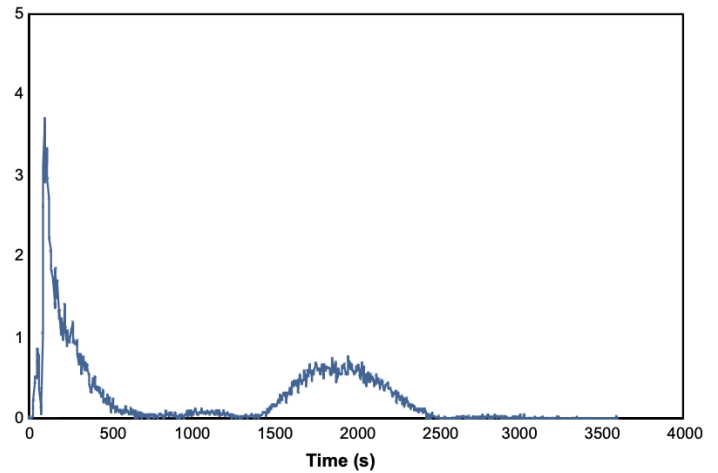
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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