

AWTA PRODUCT TESTING

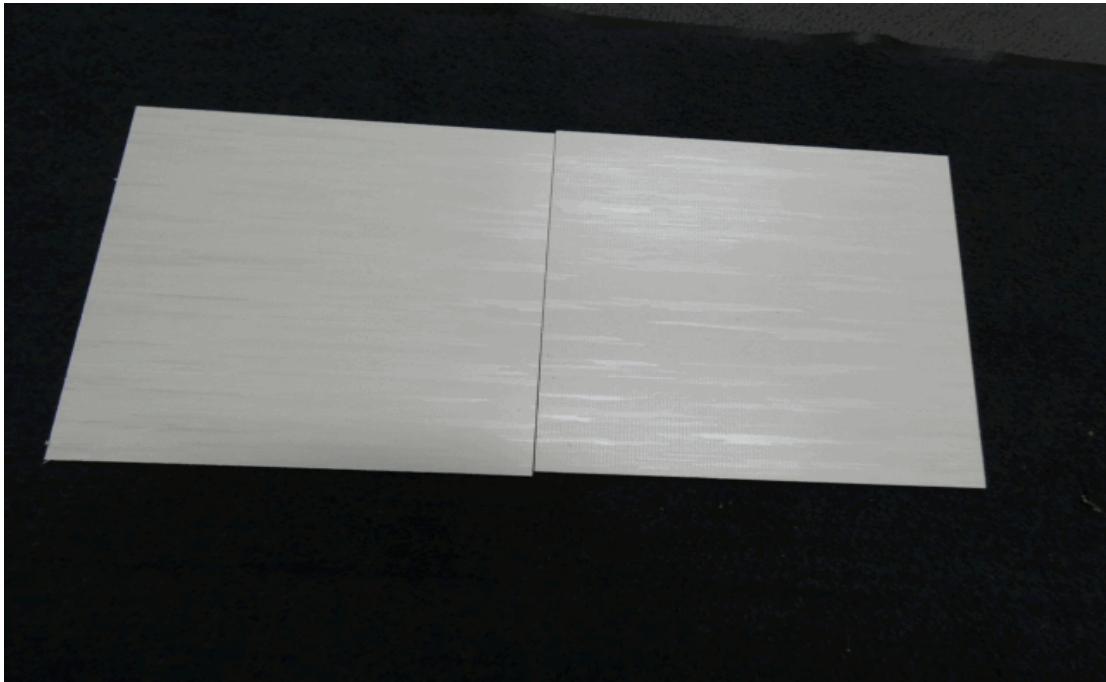
Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : Forest One
601 Victoria Street
Abbotsford VIC 3067

Test Number : 22-003332
Issue Date : 29/08/2022
Print Date : 31/08/2022

Sample Description Clients Ref : "Paper Overlay - Plywood 3.6mm"
Plywood with paper overlay texture
Colour : Timber
End Use : Wall linings/Portable Building
Nominal Composition : Meranti
Nominal Mass per Unit Area/Density : 450kg/m3
Nominal Thickness : 3.6mm



176830

60153

Page 1 of 9

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Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald

APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)
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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 29-08-2022
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	56.2	53.5	56.7	55.5	kW/m ²
Average Specific extinction area	8.0	7.5	13.1	9.5	m ² /kg

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

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
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	41	37	34	37	sec
Test duration	522	555	406	494	sec
Peak heat release after ignition	188.0	140.0	157.0	161.7	kW/m ²
Average heat at 60 s	122.2	109.9	109.8	114.0	kW/m ²
Average heat at 180 s	87.5	85.5	82.9	85.3	kW/m ²
Average heat at 300 s	70.2	67.9	61.1	66.4	kW/m ²
Total heat released	27.1	27.6	21.1	25.3	MJ/m ²
Average effective heat of combustion	9.5	9.2	8.4	9.1	MJ/kg
Initial thickness	9.6	9.6	9.6	9.6	mm
Initial mass	112.7	112.6	114	113.1	g
Mass remaining	89.5	88.2	93.6	90.5	g
Mass percentage pyrolysed	20.6	21.7	17.9	20.0	%

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Mass loss	2.9	3.0	2.5	2.8	kg/m ²
Average rate of mass loss	5.9	5.8	6.7	6.1	g/m ² .s
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.

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.

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.

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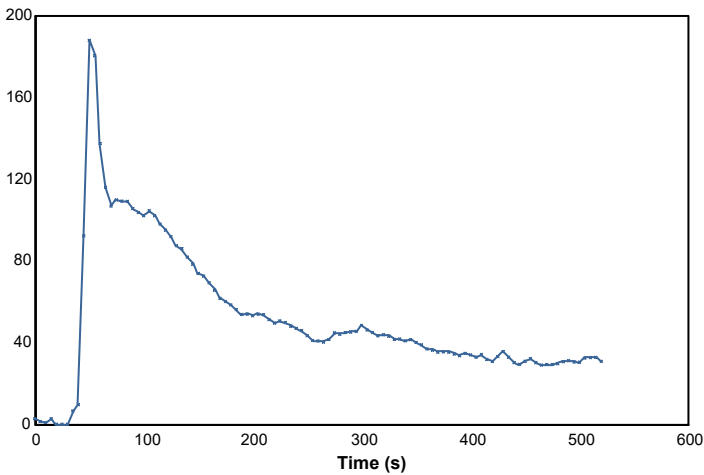
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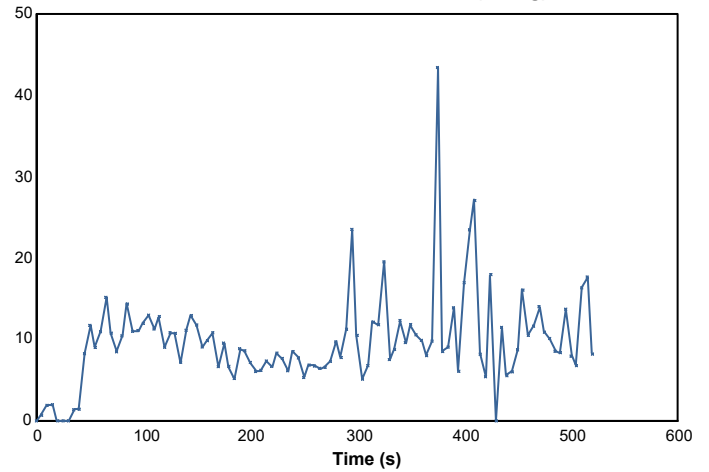
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Specimen : 1

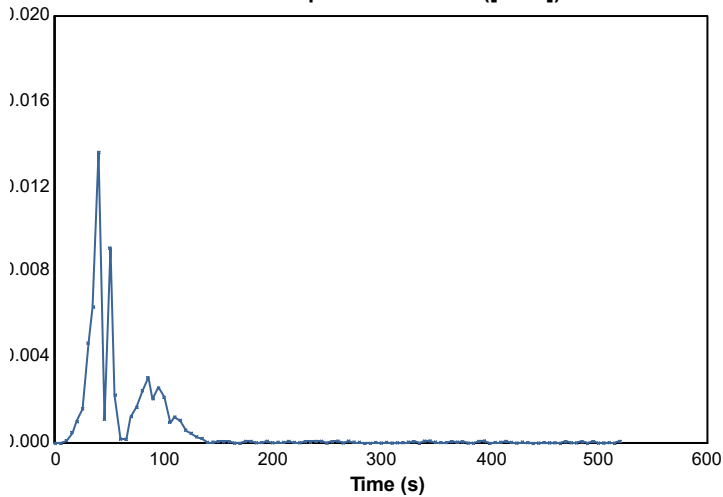
Heat release rate (kW/m²)



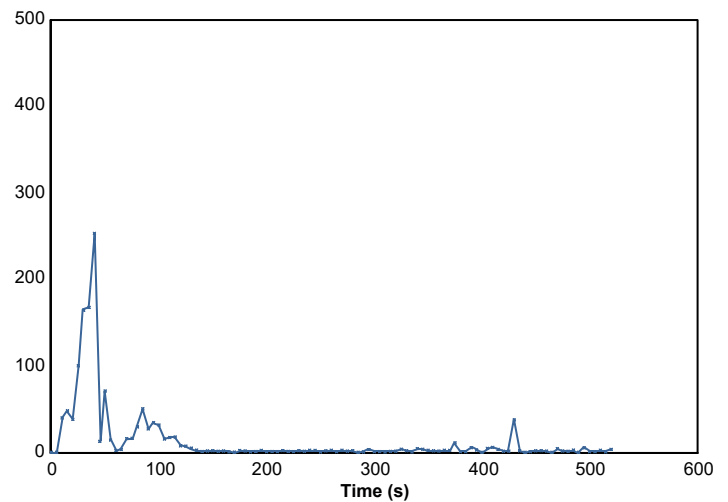
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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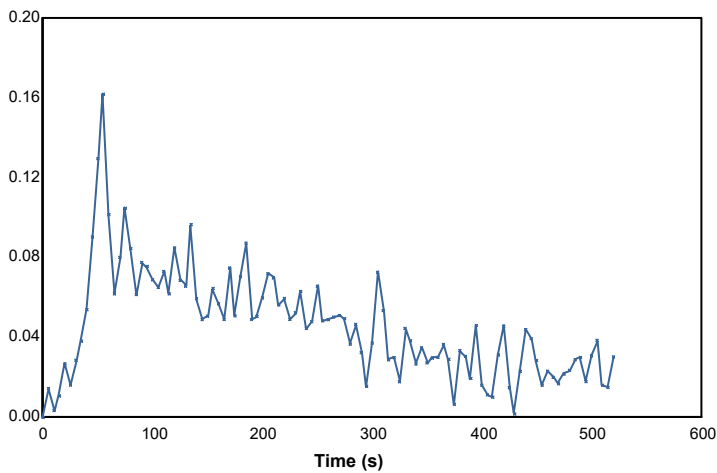
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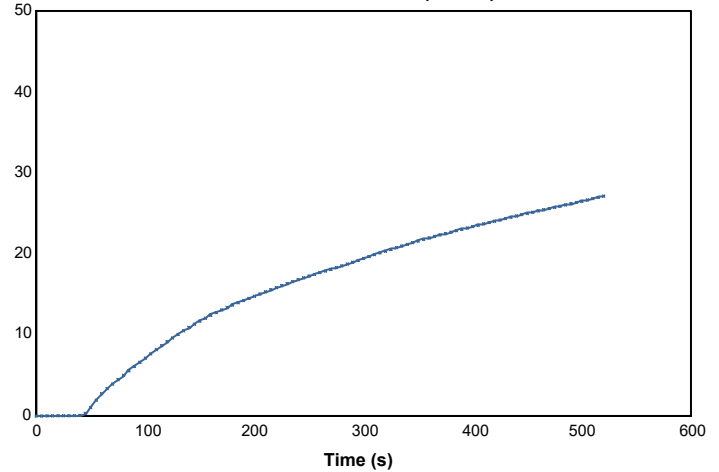
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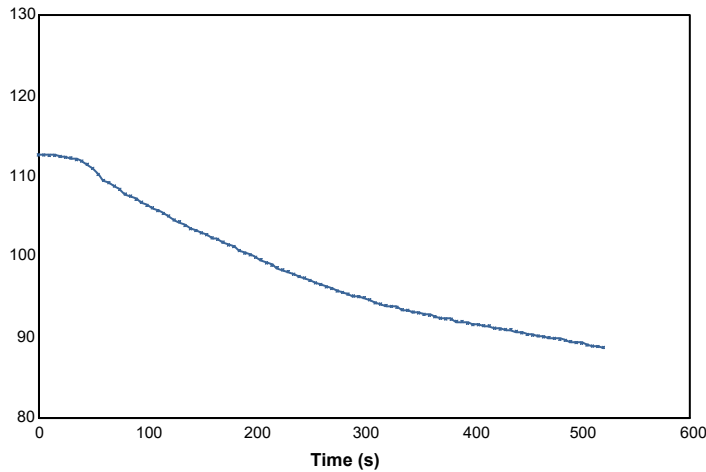
Mass loss rate (g/s)



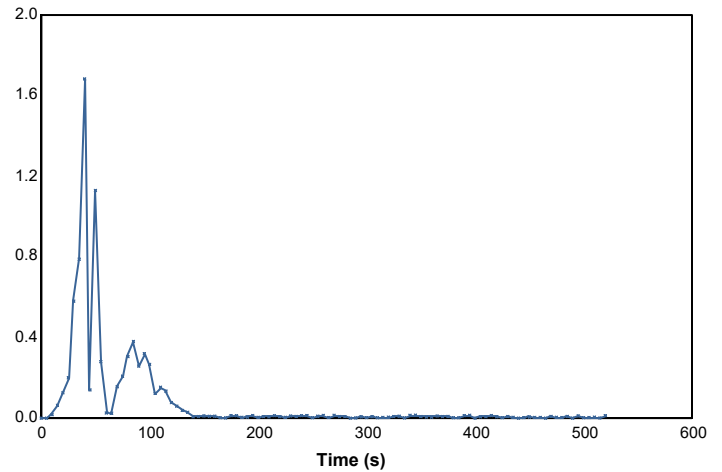
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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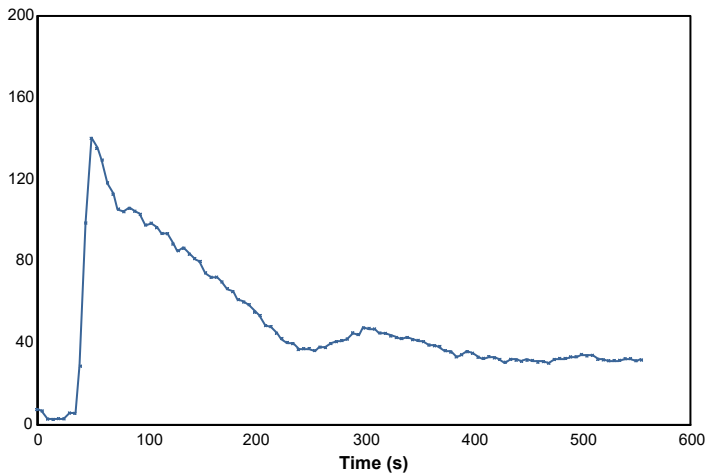
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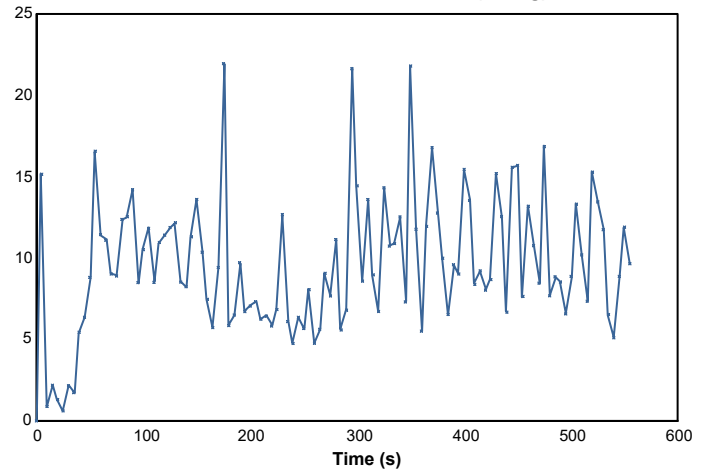
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Specimen : 2

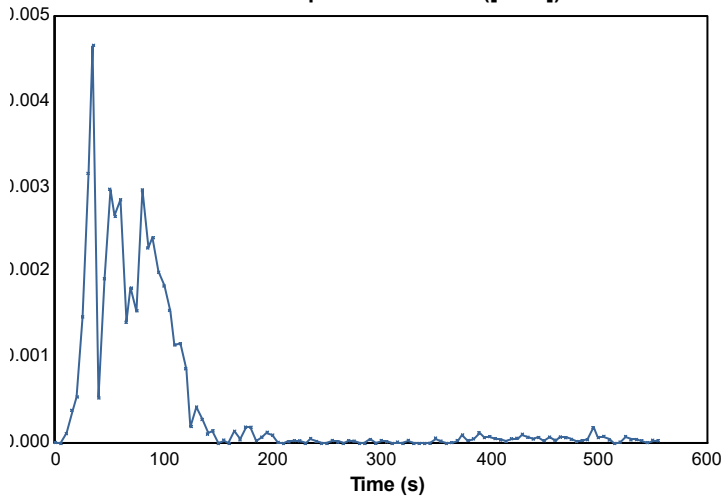
Heat release rate (kW/m²)



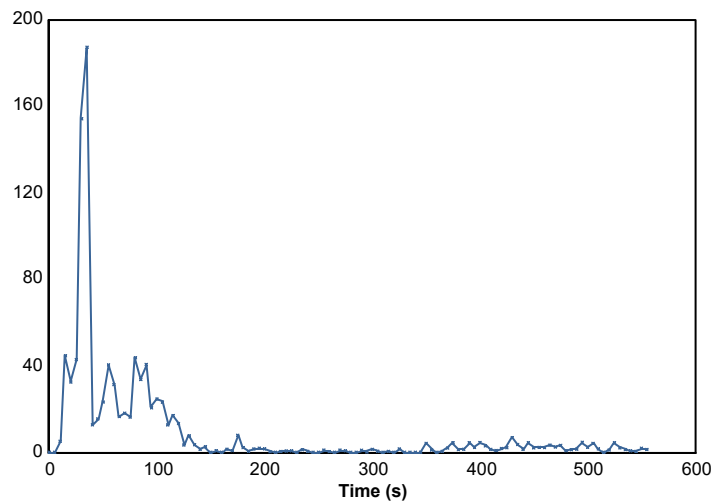
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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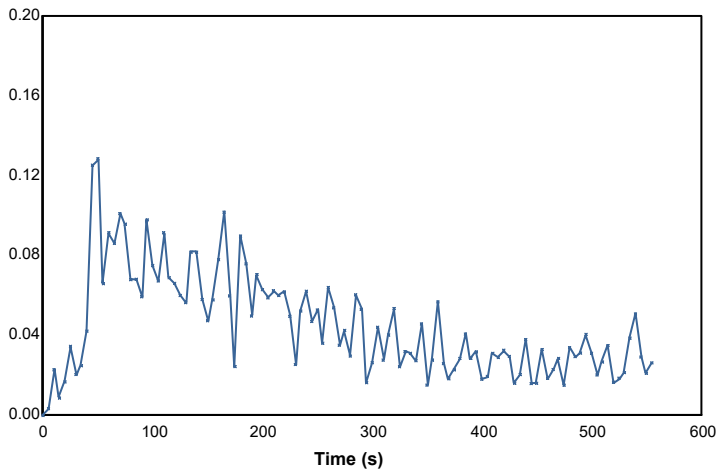
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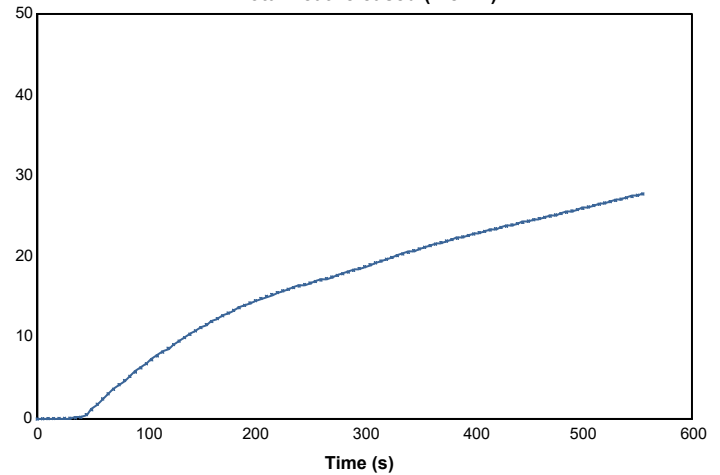
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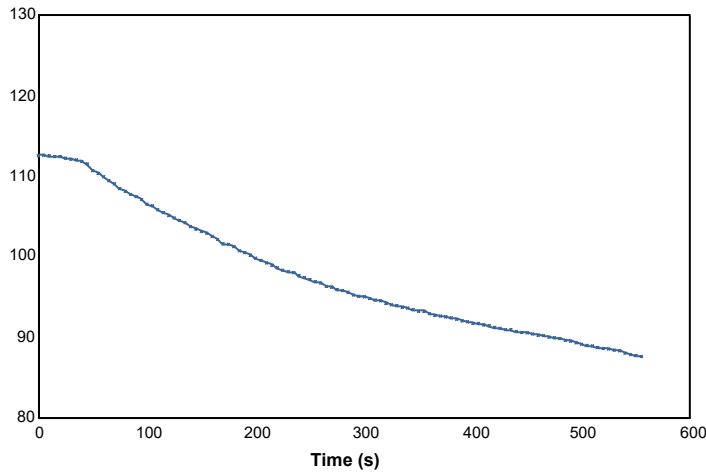
Mass loss rate (g/s)



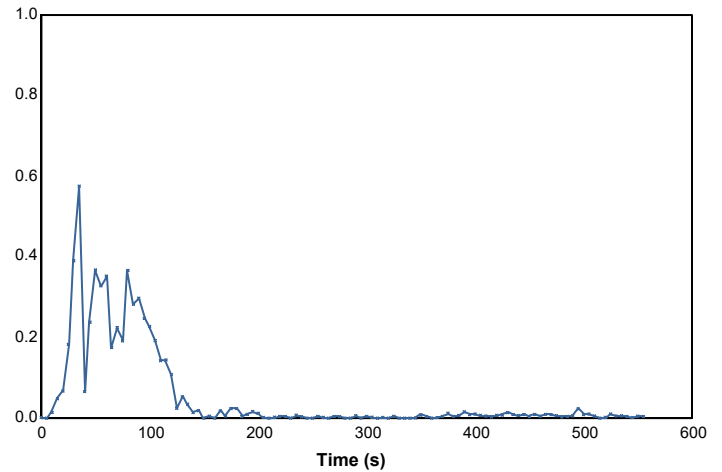
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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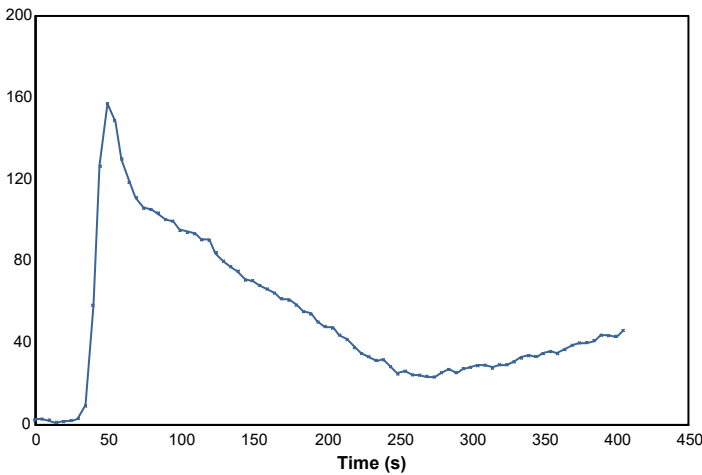
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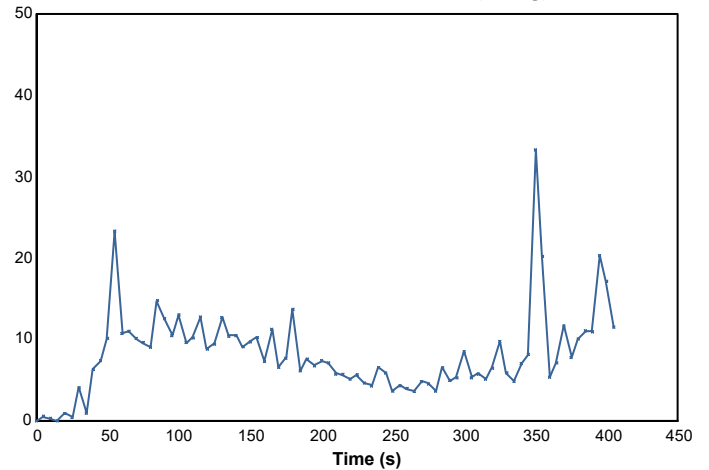
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Specimen : 3

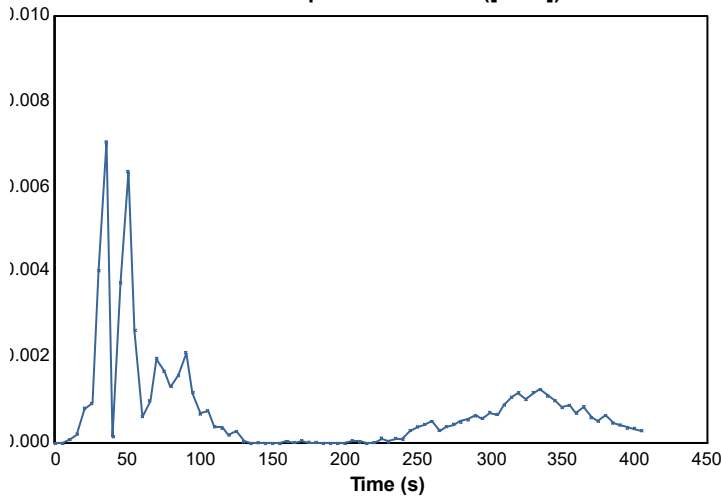
Heat release rate (kW/m²)



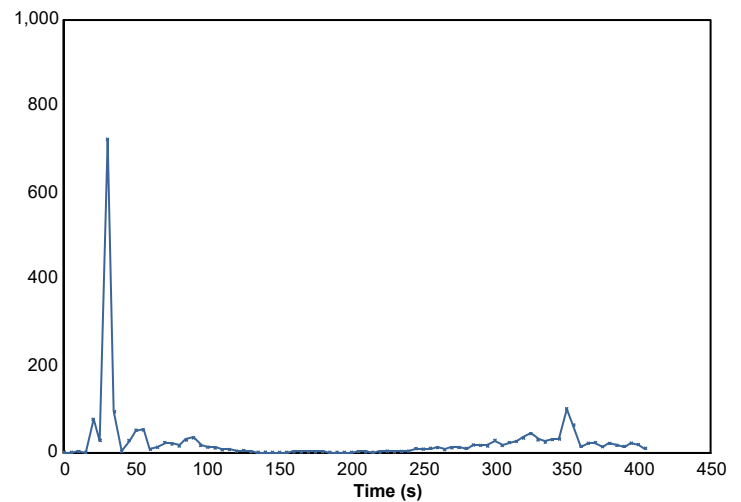
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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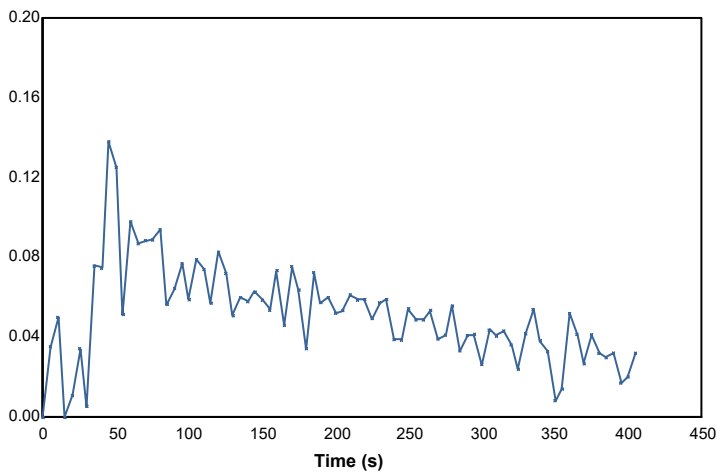
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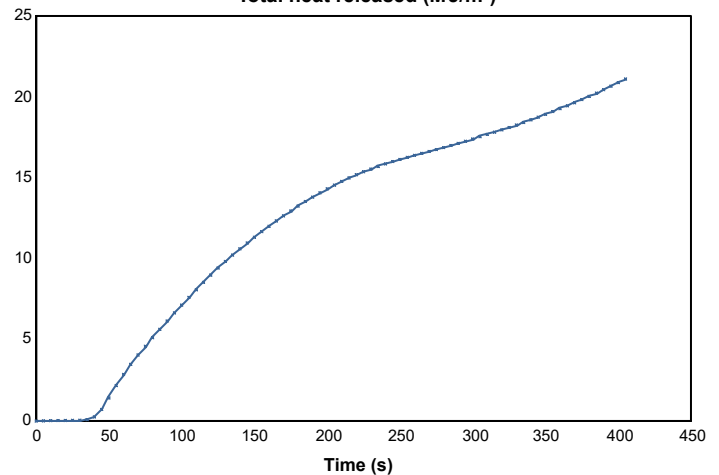
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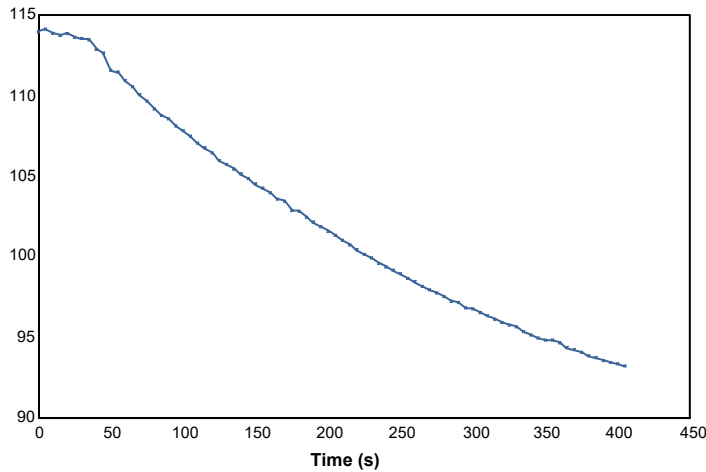
Mass loss rate (g/s)



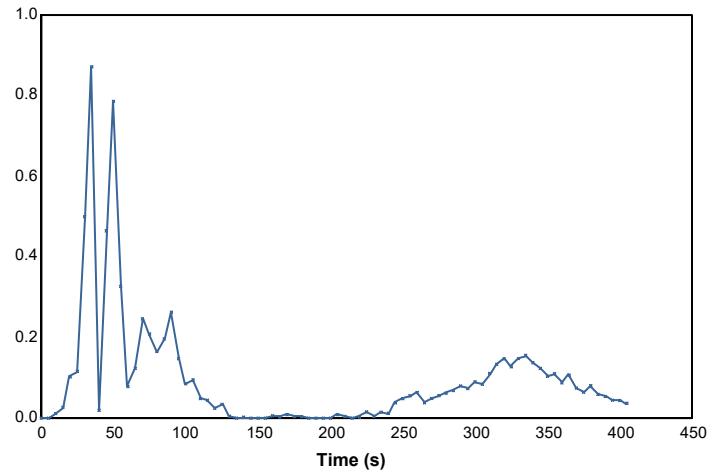
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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