

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

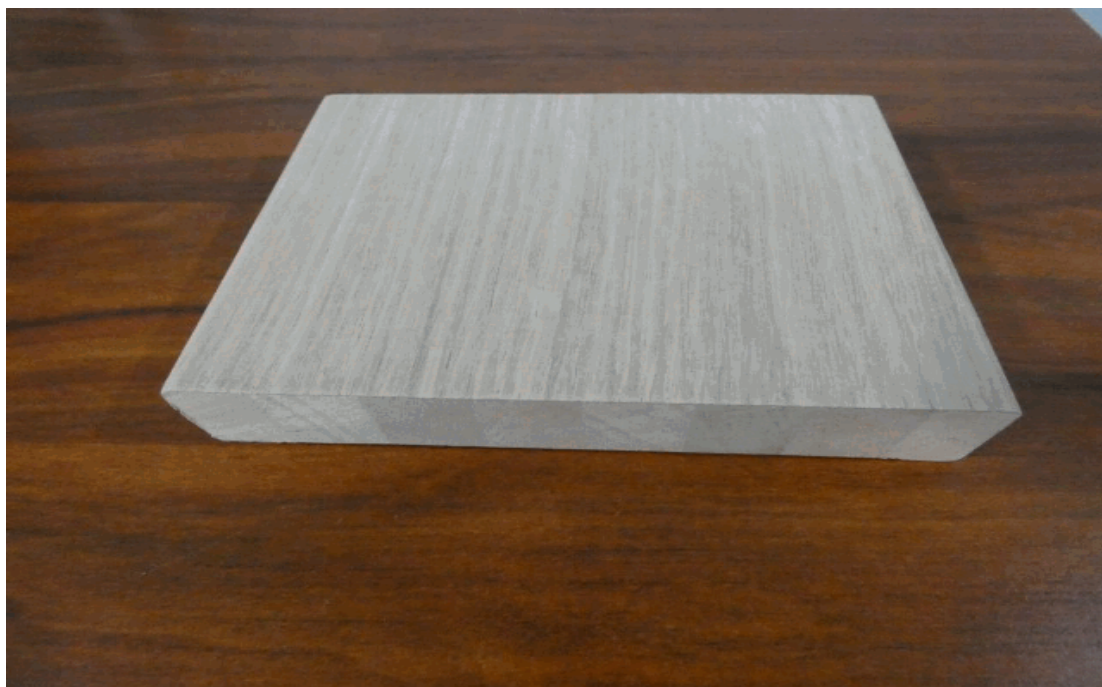
TEST REPORT

Client : Porta Timber
224-256 Heidelberg Road
Fairfield VIC 3078

Test Number : 22-001151
Issue Date : 08/04/2022
Print Date : 29/04/2022

Sample Description

Clients Ref : "American Oak Contours"
Rigid Panel
Colour : Oak
End Use : Lining Boards
Nominal Composition : American Oak Veneer on meranti FJ Substrate
Nominal Mass per Unit Area/Density : 750g/m2
Nominal Thickness : 21mm



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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 08-04-2022
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	47.8	54.2	44.8	48.9	kW/m ²
Average Specific extinction area	20.1	26.4	20.7	22.4	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	11	12	11	11	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	164.5	203.2	218.8	195.5	kW/m ²
Average heat at 60 s	148.3	156.4	166.9	157.2	kW/m ²
Average heat at 180 s	114.7	128.1	127.3	123.4	kW/m ²
Average heat at 300 s	97.7	107.4	104.9	103.4	kW/m ²
Total heat released	171.4	194.2	160.5	175.4	MJ/m ²
Average effective heat of combustion	13.6	15.6	15.0	14.7	MJ/kg
Initial thickness	21	21	21	21.0	mm
Initial mass	119.2	113.8	96.4	109.8	g
Mass remaining	16.8	12.9	9.2	12.9	g
Mass percentage pyrolysed	85.9	88.7	90.5	88.4	%

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Mass loss	12.6	12.5	10.8	12.0	kg/m ²
Average rate of mass loss	3.5	3.5	3.0	3.3	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.

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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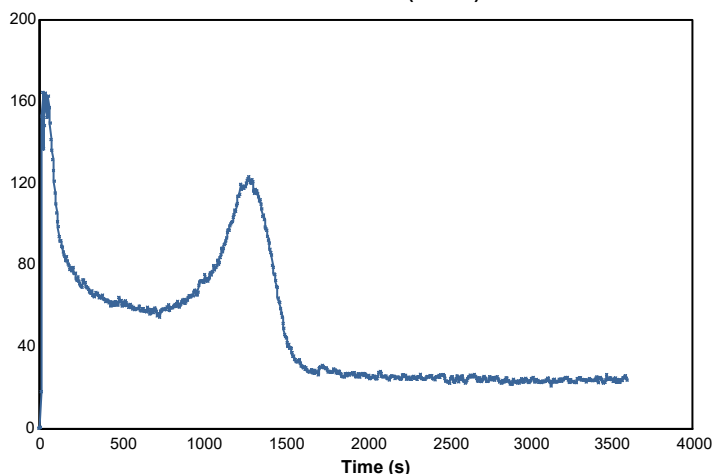
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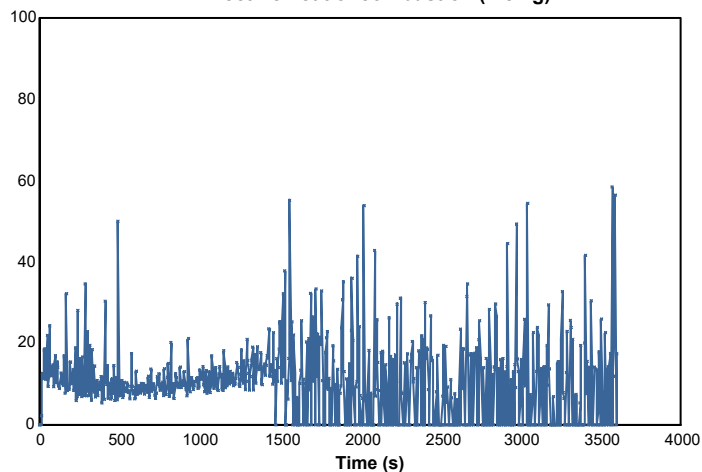
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Specimen : 1

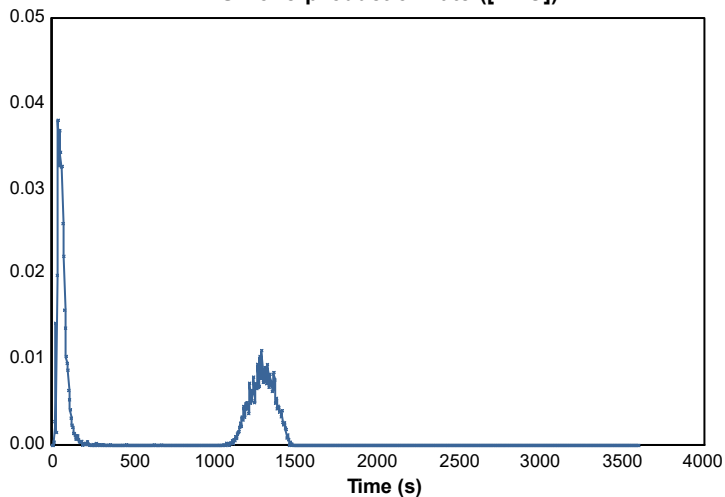
Heat release rate (kW/m²)



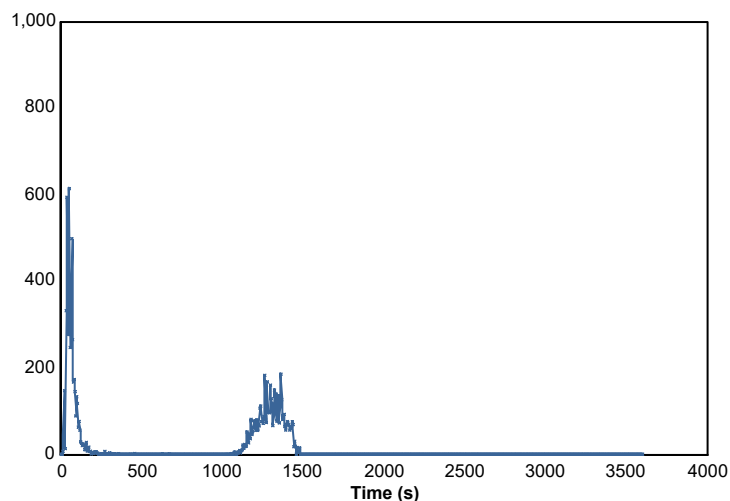
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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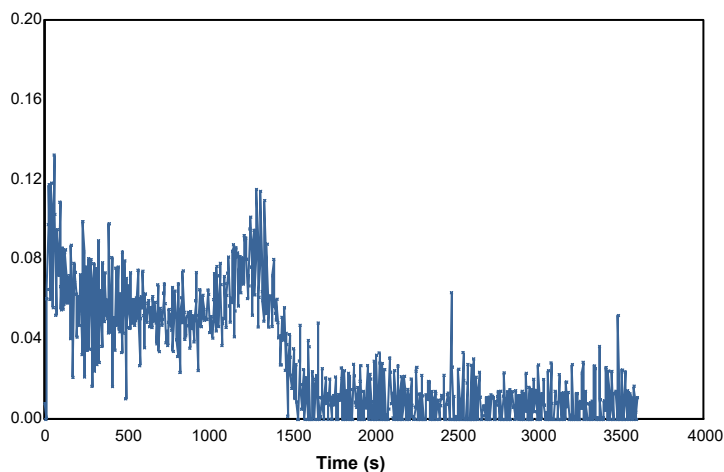
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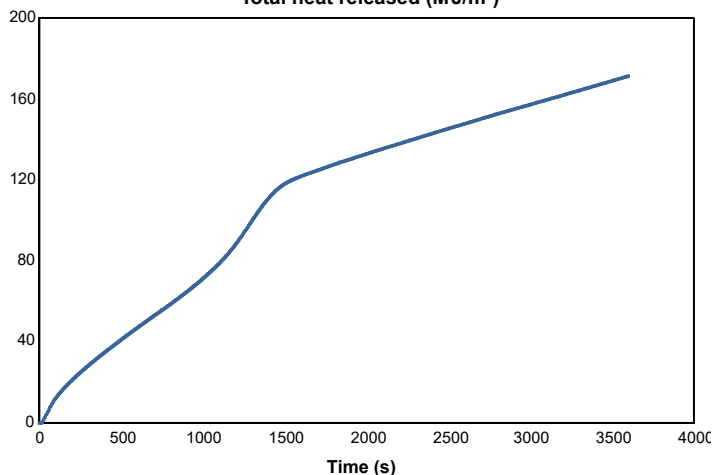
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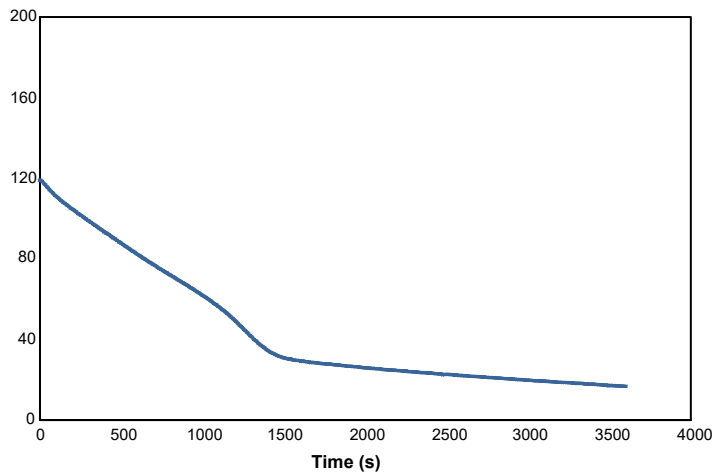
Mass loss rate (g/s)



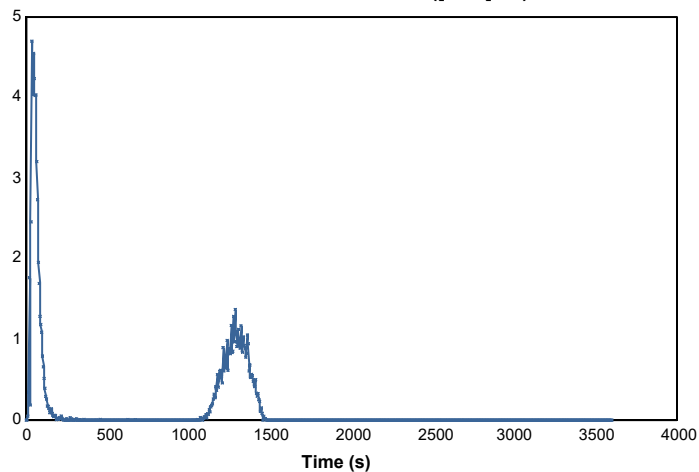
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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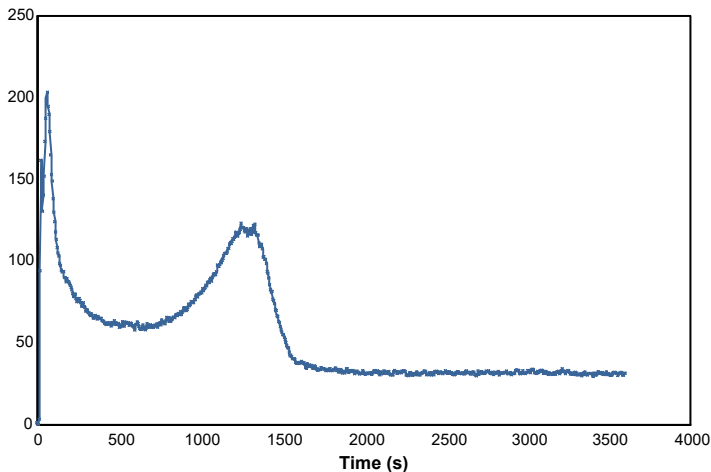
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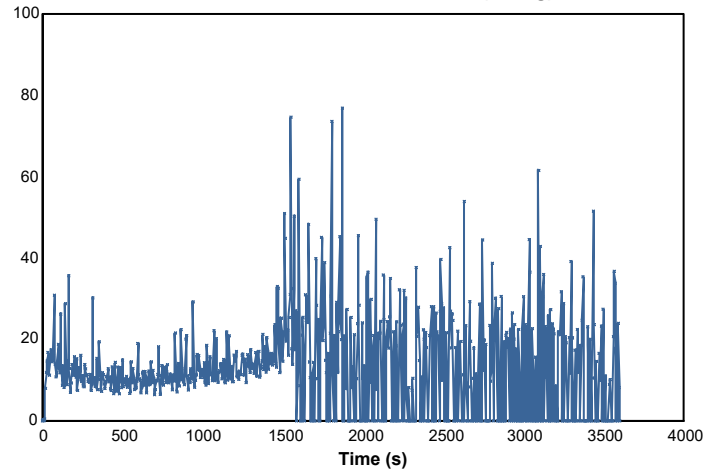
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Specimen : 2

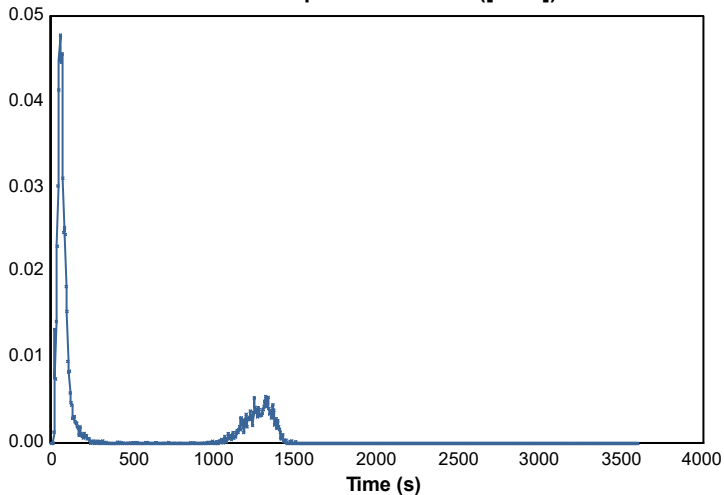
Heat release rate (kW/m²)



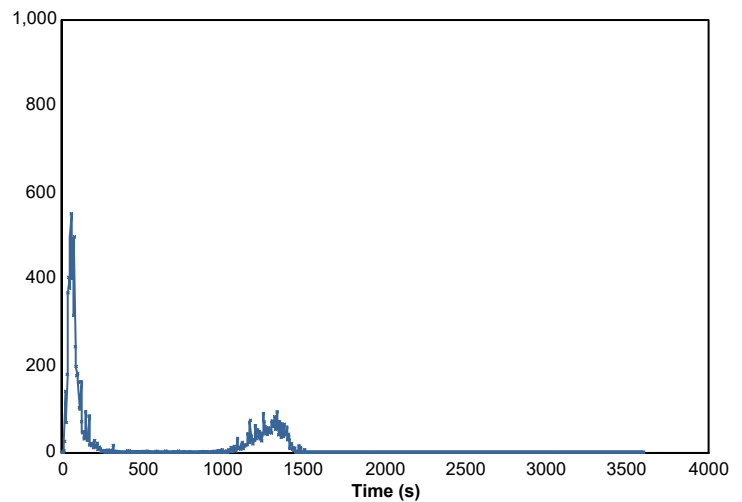
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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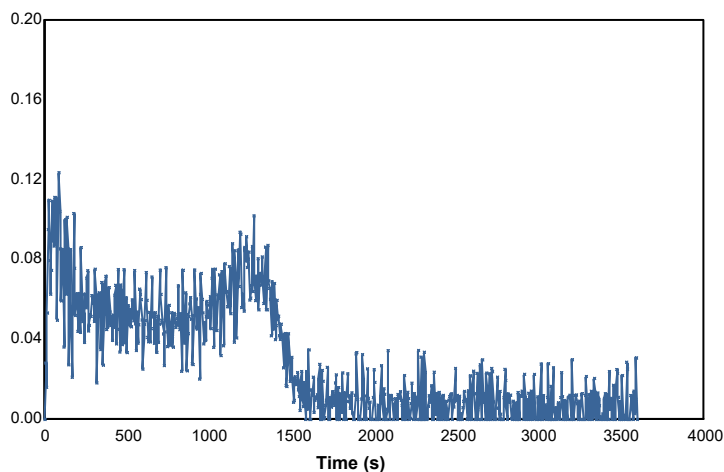
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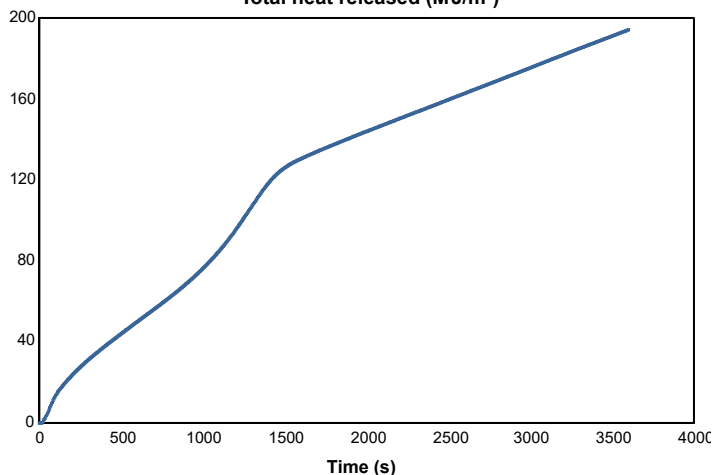
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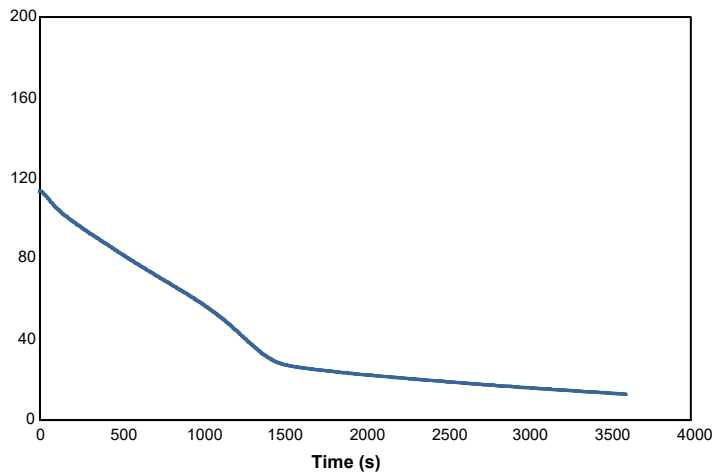
Mass loss rate (g/s)



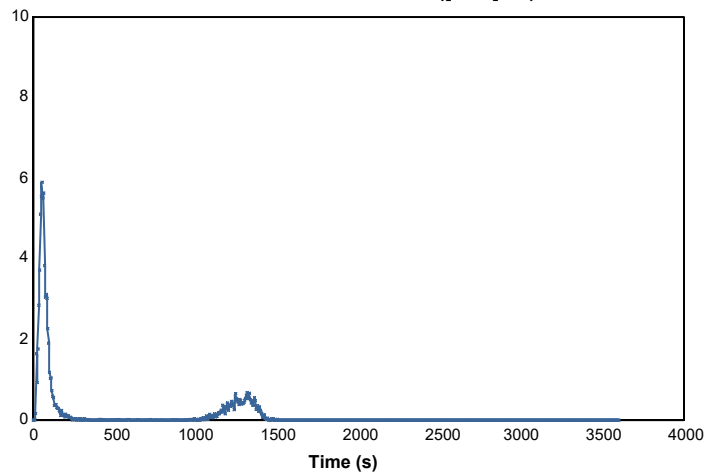
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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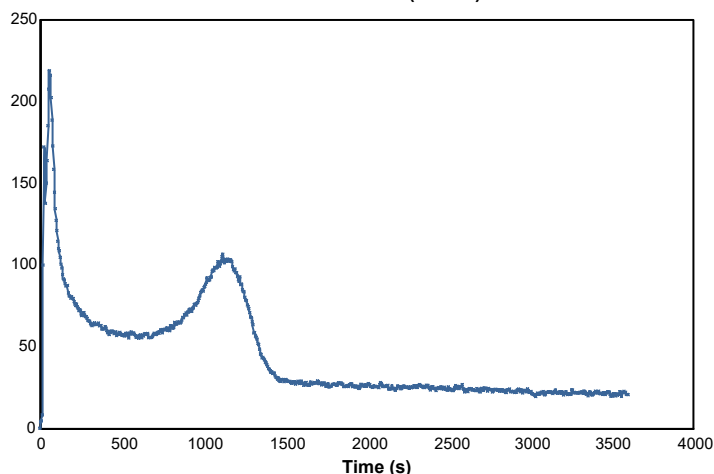
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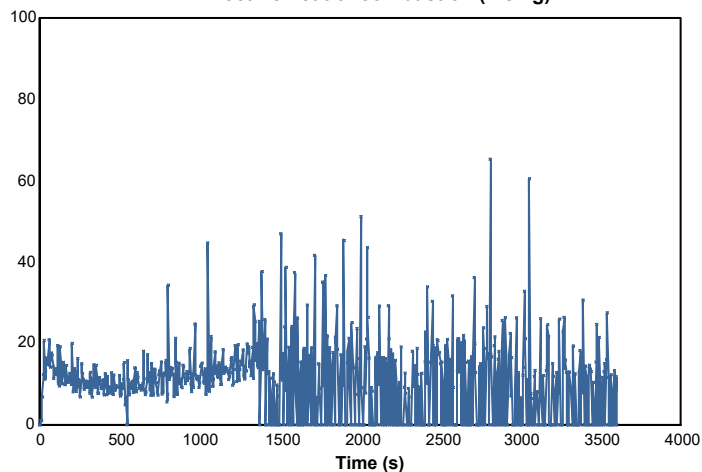
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Specimen : 3

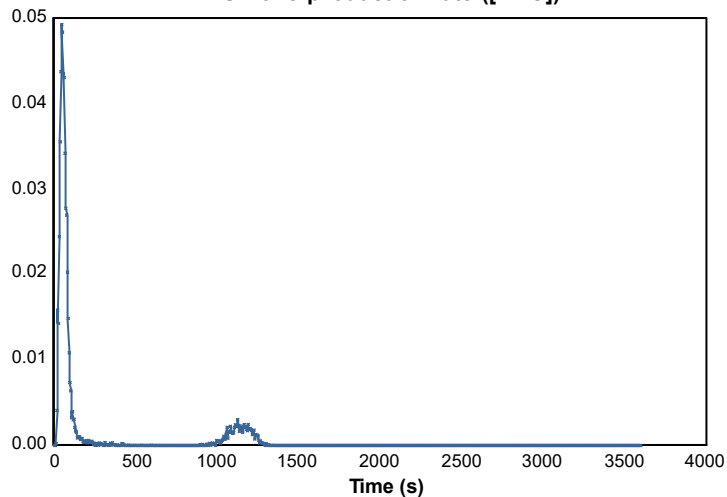
Heat release rate (kW/m²)



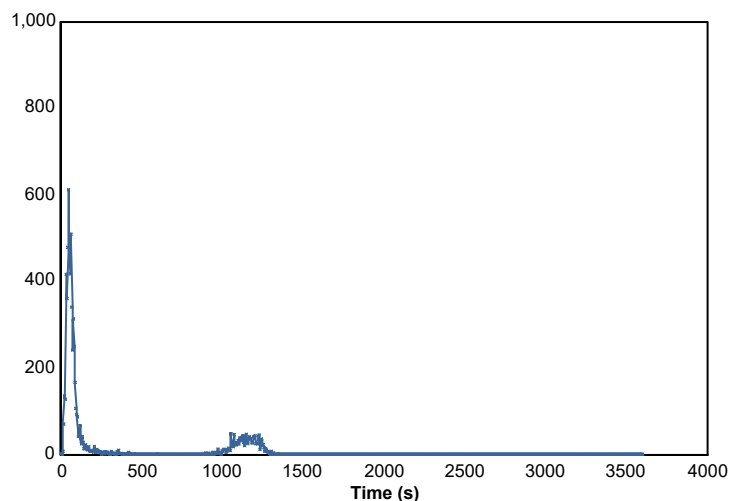
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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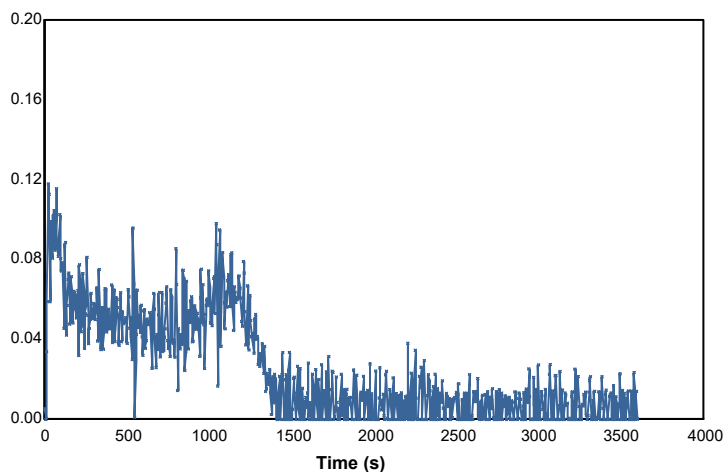
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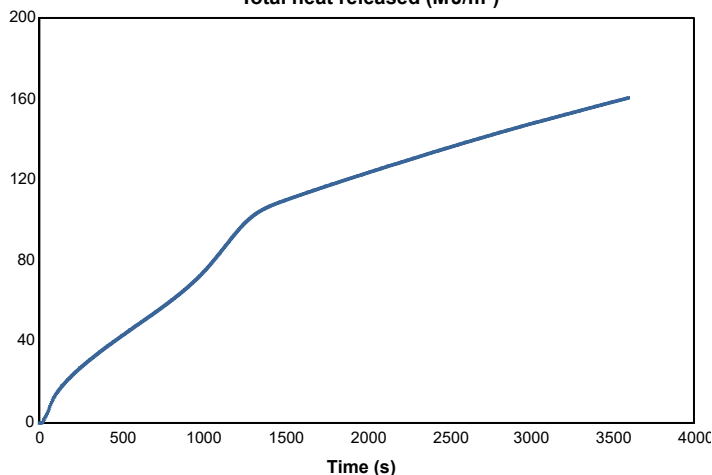
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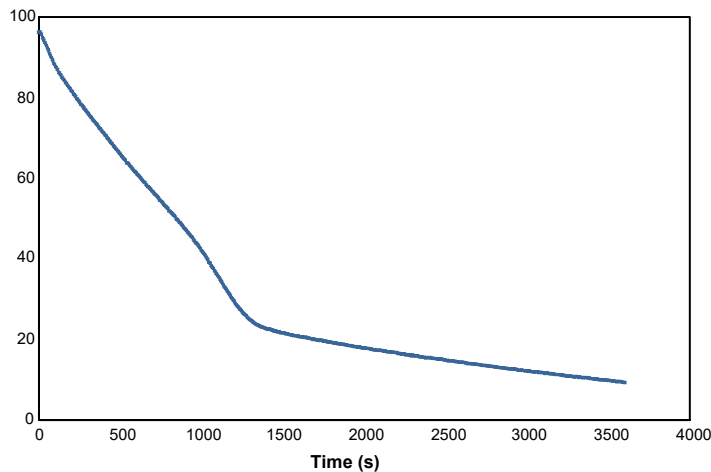
Mass loss rate (g/s)



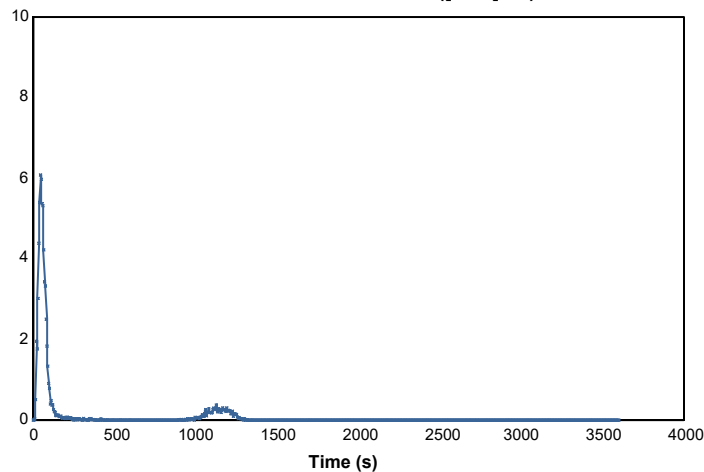
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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