

# 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

## Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

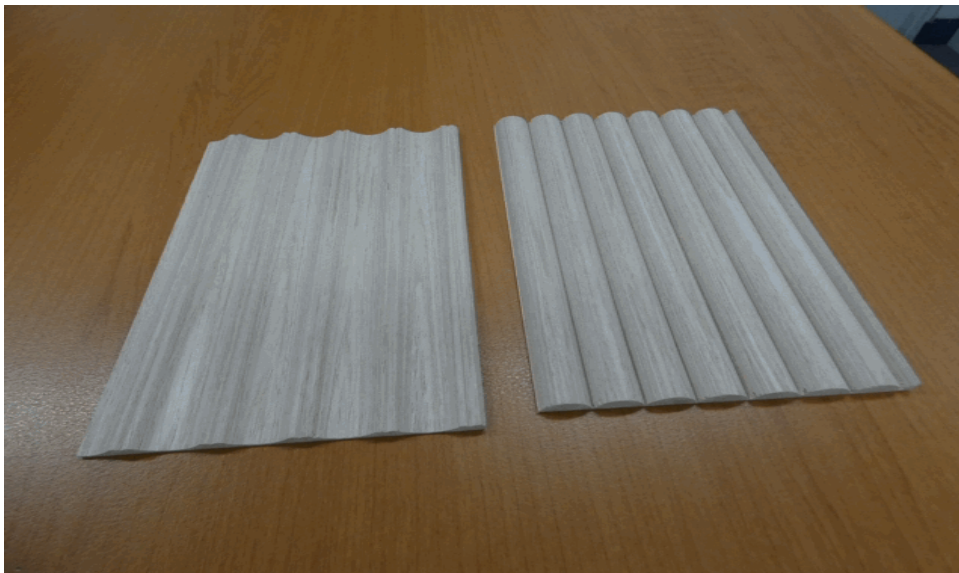
Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

**Test Sponsor :** Elton Group  
1-5 Brough Street  
Springvale VIC 3171

**Test Number :** 23-004085  
**Issue Date :** 20/10/2023  
**Print Date :** 20/10/2023

**Sponsor Product :** Clients Ref : "E veneer Profiles - Flute and Reed 6mm"  
Timber profiled panel  
Colour : Natural  
End Use : Wall and Ceiling Linings  
Nominal Composition : E veneer raw timber with 3D milled profiles on a non woven fabric backing  
Nominal Thickness : 6mm



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Product Group Number Classification : 3

Average Specific Extinction Area : 6.4 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

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### Sample Description

Clients Ref : "E veneer Profiles - Flute and Reed 6mm"

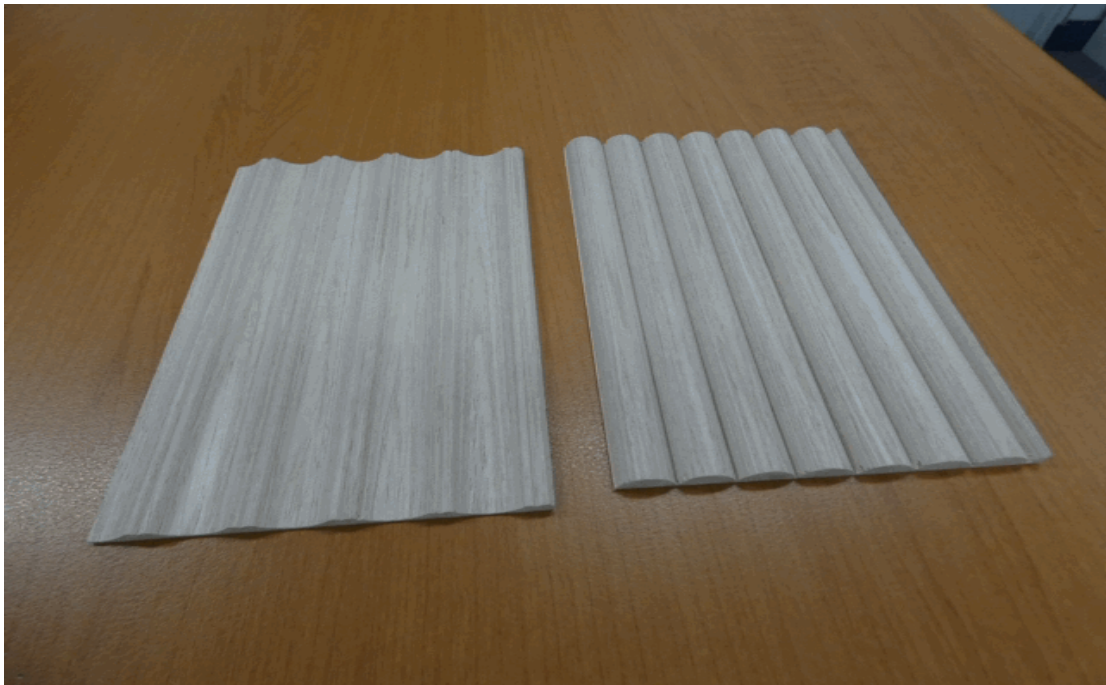
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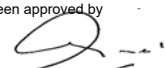
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Chris Campbell  
APPROVED SIGNATORY



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 19-10-2023  
Operator AWTA Test Operator 9  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	47.5	43.0	43.3	44.6	kW/m <sup>2</sup>
Average Specific extinction area	18.1	1.0	0.0	6.4	m <sup>2</sup> /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 <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	58	56	63	59	sec
Test duration	1377	1434	1495	1435	sec
Peak heat release after ignition	139.3	136.9	133.0	136.4	kW/m <sup>2</sup>
Average heat at 60 s	91.2	94.1	91.3	92.2	kW/m <sup>2</sup>
Average heat at 180 s	115.4	112.8	109.5	112.6	kW/m <sup>2</sup>
Average heat at 300 s	106.0	101.4	101.3	102.9	kW/m <sup>2</sup>
Total heat released	62.7	59.1	62.0	61.3	MJ/m <sup>2</sup>
Average effective heat of combustion	12.5	11.8	12.5	12.3	MJ/kg
Initial thickness	16	16	16	16.0	mm
Initial mass	87.4	88.1	88.1	87.9	g
Mass remaining	46.6	47.6	47.9	47.4	g
Mass percentage pyrolysed	46.7	45.9	45.6	46.1	%

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Mass loss	5.0	5.0	5.0	5.0	kg/m <sup>2</sup>
Average rate of mass loss	3.8	3.6	3.5	3.6	g/m <sup>2</sup> .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 10mm thick plasterboard 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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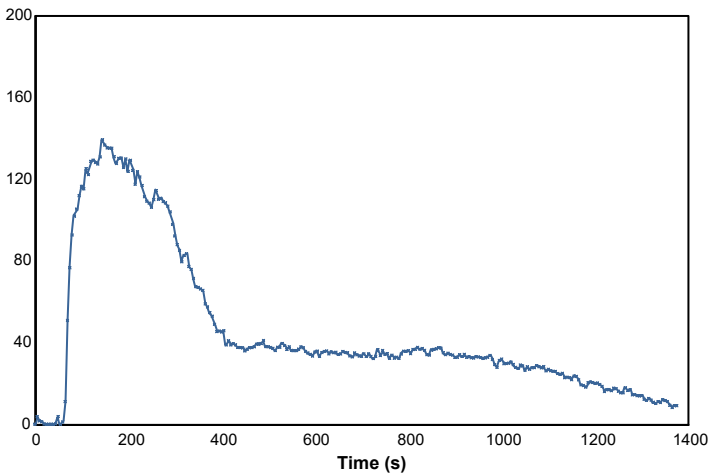
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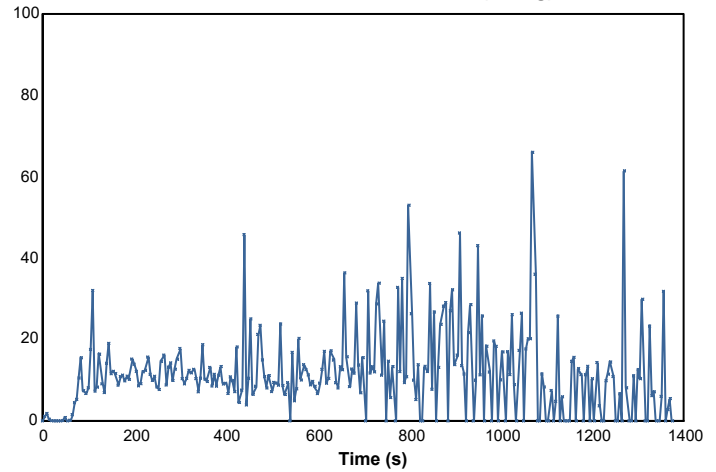
**Test Number :** 23-004085  
**Issue Date :** 19/10/2023  
**Print Date :** 20/10/2023

**Specimen :** 1

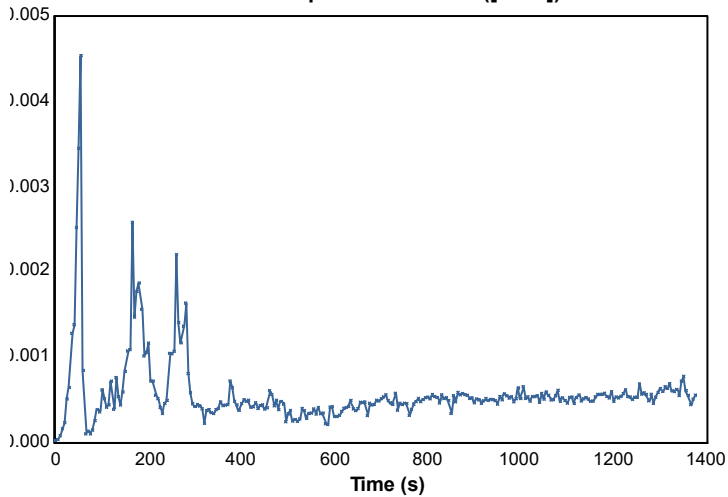
**Heat release rate (kW/m<sup>2</sup>)**



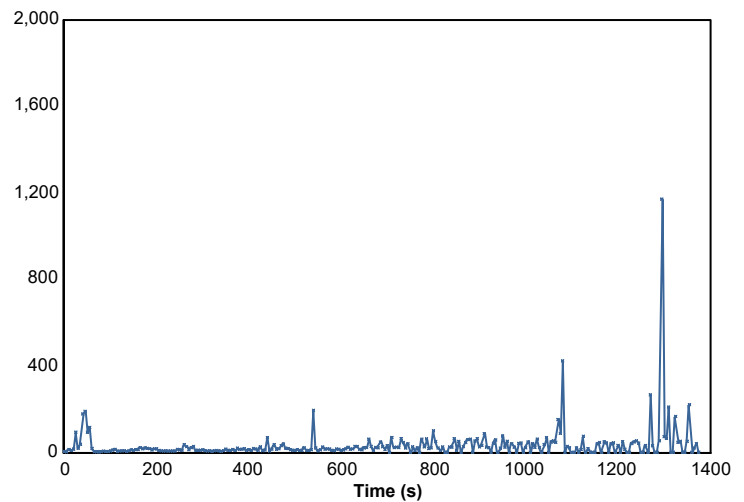
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



**Specific extinction area (m<sup>2</sup>/kg)**



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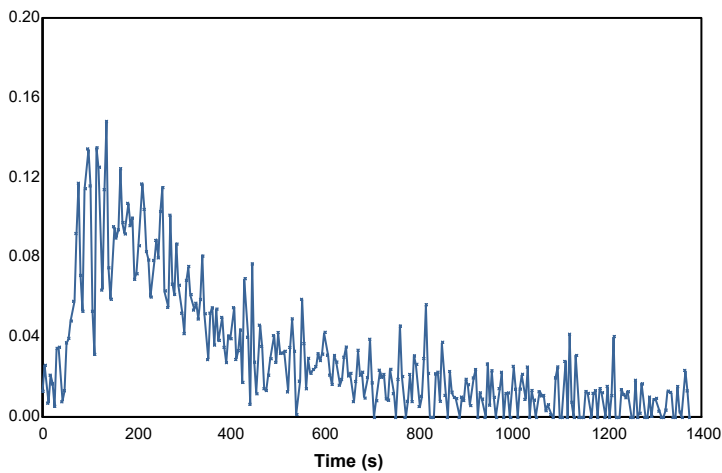
Phone (03) 9371 2400

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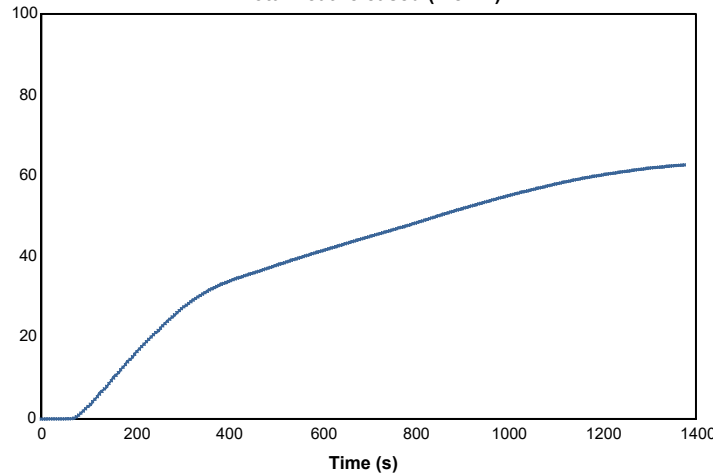
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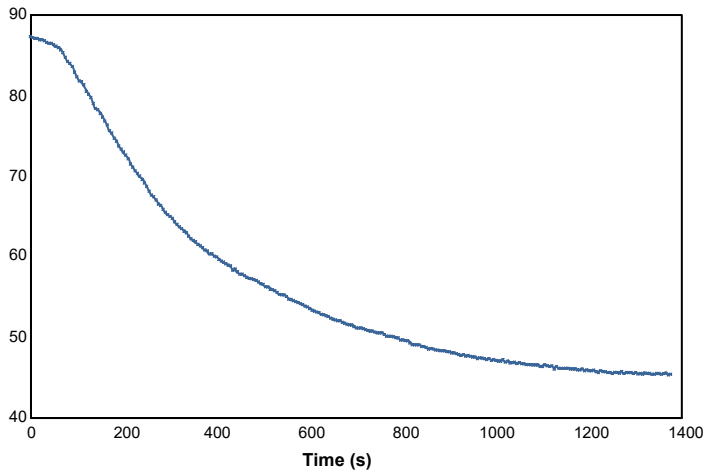
Mass loss rate (g/s)



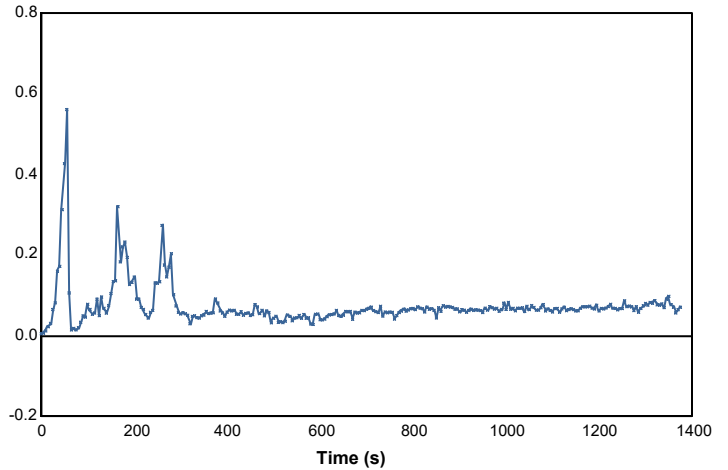
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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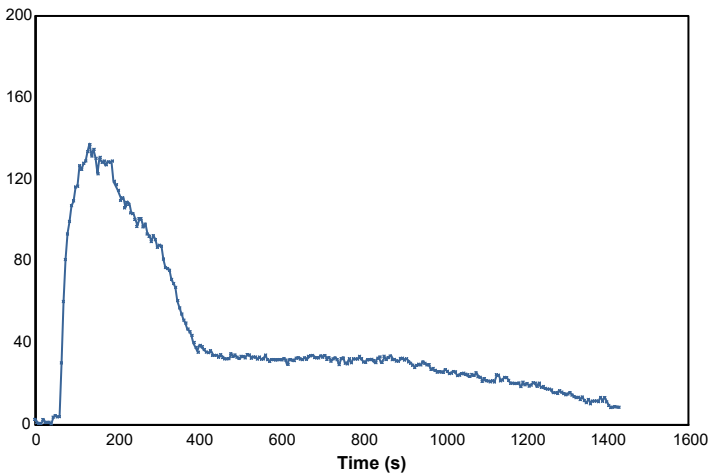
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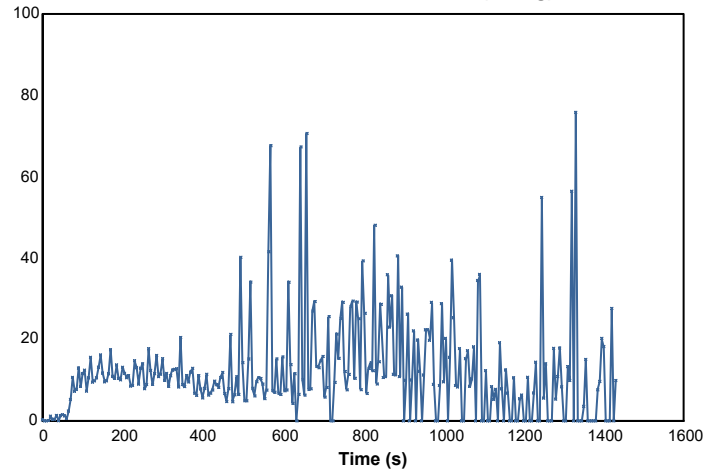
**Test Number :** 23-004085  
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**Print Date :** 20/10/2023

**Specimen :** 2

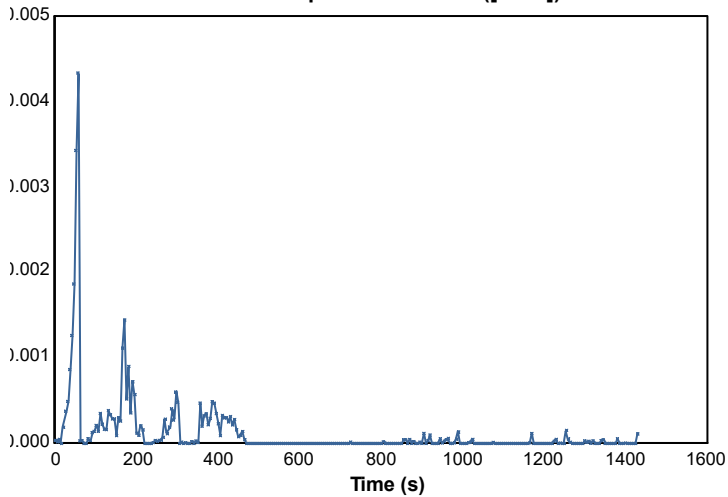
**Heat release rate (kW/m<sup>2</sup>)**



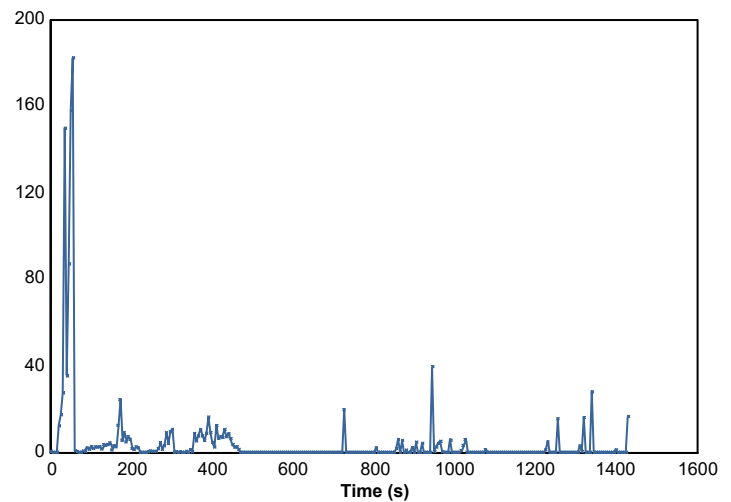
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



**Specific extinction area (m<sup>2</sup>/kg)**



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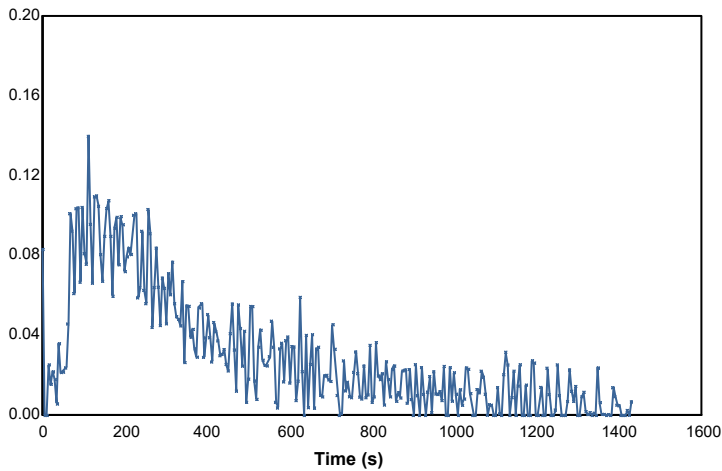
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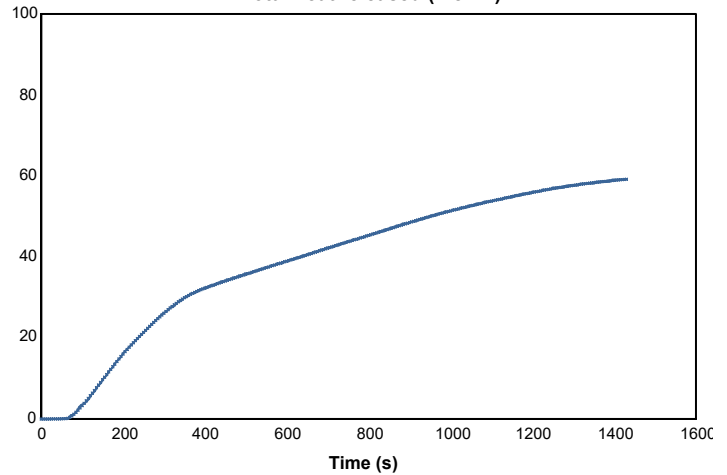
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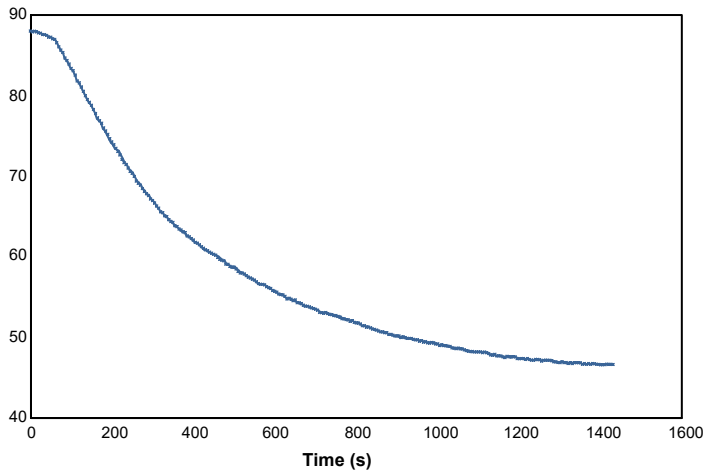
Mass loss rate (g/s)



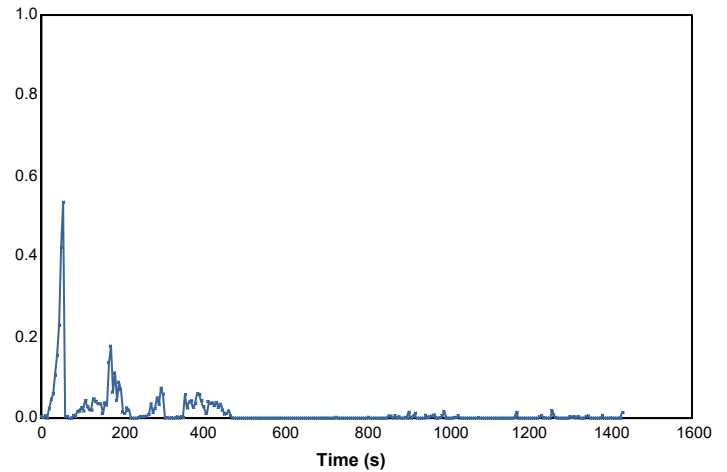
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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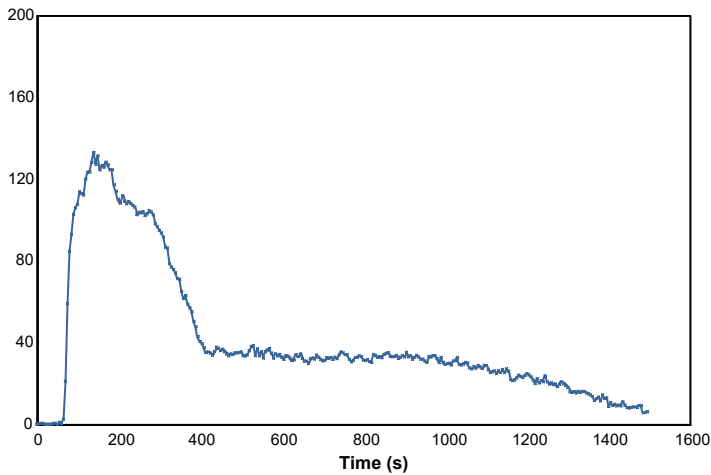
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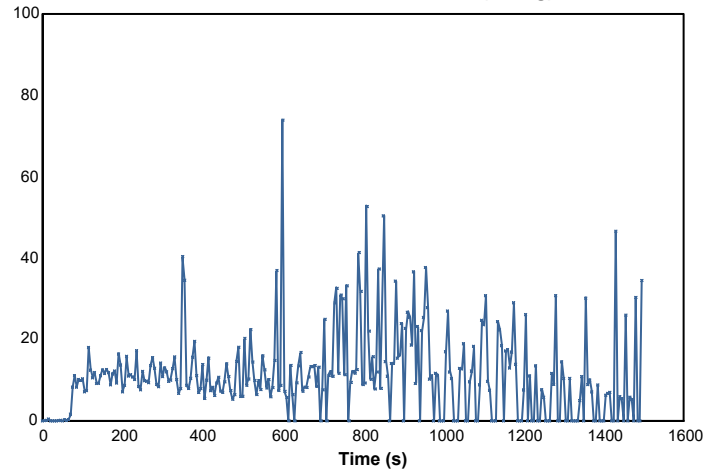
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**Specimen :** 3

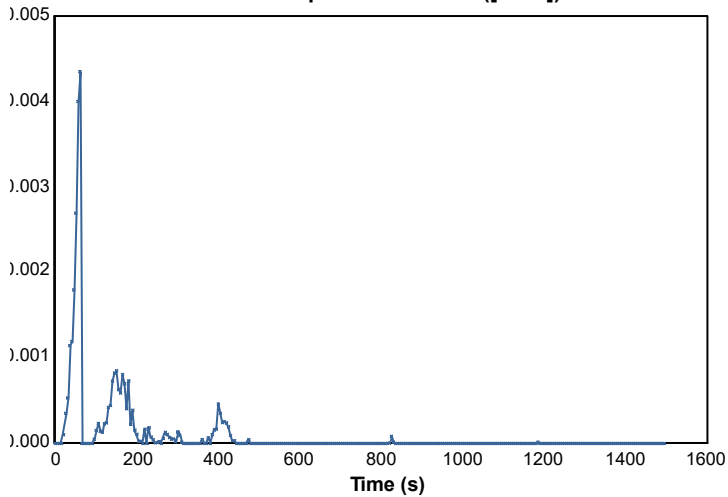
**Heat release rate (kW/m<sup>2</sup>)**



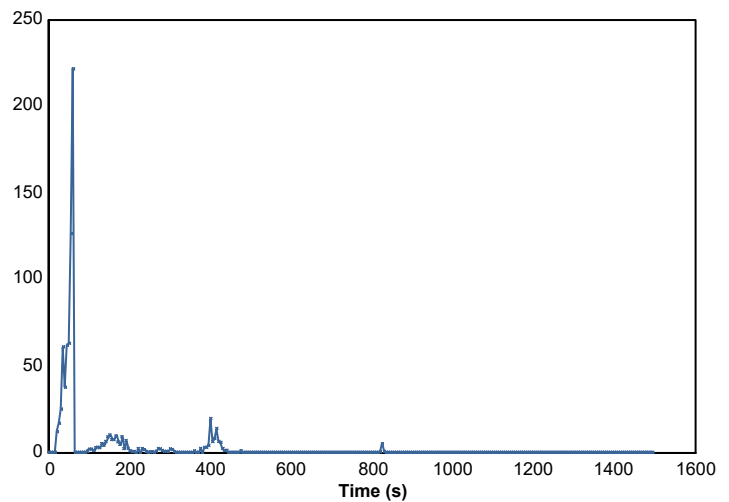
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



**Specific extinction area (m<sup>2</sup>/kg)**



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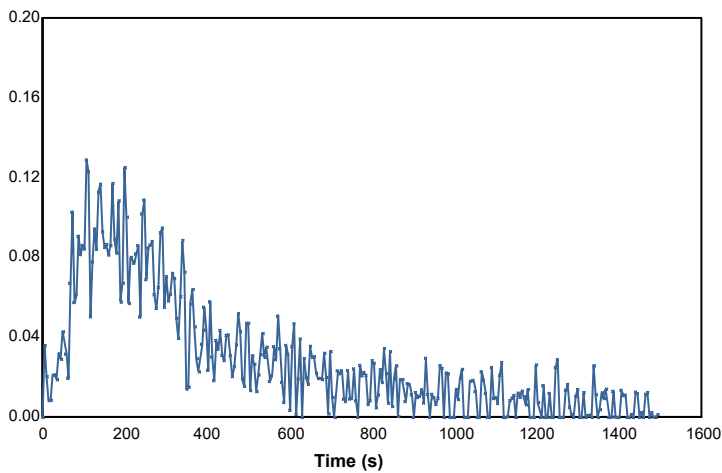
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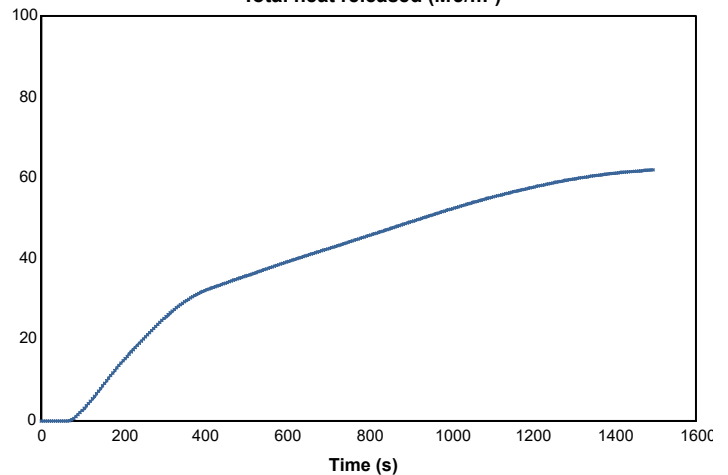
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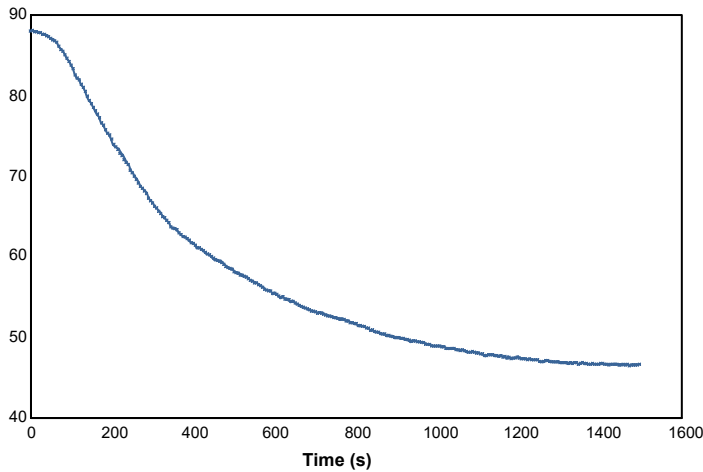
Mass loss rate (g/s)



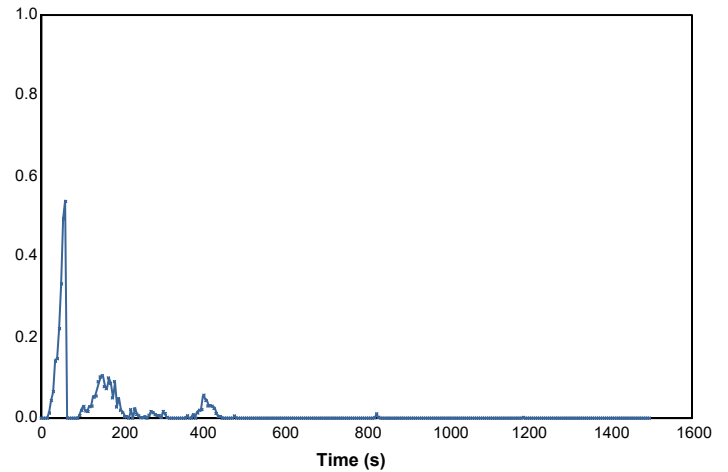
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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