

# 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 Fax (03) 9371 2499

## 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.

**Test Sponsor :** Borg Manufacturing Pty Ltd  
2 Wella Way  
Somersby NSW 2250

**Test Number :** 19-003251  
**Issue Date :** 20/08/2019  
**Print Date :** 20/08/2019

**Sponsor Product** Clients Ref : "Customwood MR MDF 18MM"  
Sample of MDF  
Colour : Natural  
End Use : Joinery and Wall Linings  
Nominal Composition : Medium Density Fibre board  
Nominal Mass per Unit Area/Density : 720kg/m3  
Nominal Thickness : 18mm

Product Group Number Classification : 3  
Average Specific Extinction Area : 33.7 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

36806

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Sample of MDF  
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End Use : Joinery and Wall Linings  
Nominal Composition : Medium Density Fibre board  
Nominal Mass per Unit Area/Density : 720kg/m<sup>3</sup>  
Nominal Thickness : 18mm

**AS/NZS 3837-1998** Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 15/08/2019  
Operator AWTA Test Operator 3  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	38.3	60.3	66.3	54.9	kW/m <sup>2</sup>
Average Specific extinction area	32.8	37.4	30.8	33.7	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	48	41	40	43	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	175.9	228.6	215.2	206.6	kW/m <sup>2</sup>
Average heat at 60 s	146.3	183.7	160.1	163.4	kW/m <sup>2</sup>

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

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Average heat at 180 s	142.3	163.2	161.7	155.7	kW/m <sup>2</sup>
Average heat at 300 s	127.0	148.5	148.5	141.3	kW/m <sup>2</sup>
Total heat released	135.9	214.4	236.0	195.4	MJ/m <sup>2</sup>
Average effective heat of combustion	8.8	13.8	15.1	12.5	MJ/kg
Initial thickness	18	18	18	18.0	mm
Initial mass	144.3	143.5	142.3	143.4	g
Mass at sustained flaming	143.6	143.3	141.8	142.9	g
Mass remaining	18.1	17.2	15.7	17.0	g
Mass percentage pyrolysed	87.4	88.0	89.0	88.1	%
Mass loss	15.6	15.6	15.6	15.6	kg/m <sup>2</sup>
Average rate of mass loss	4.7	4.4	4.4	4.5	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.

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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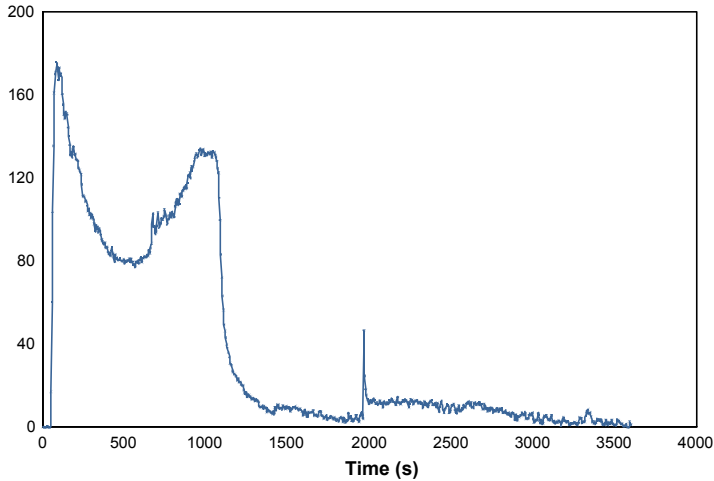
## TEST REPORT

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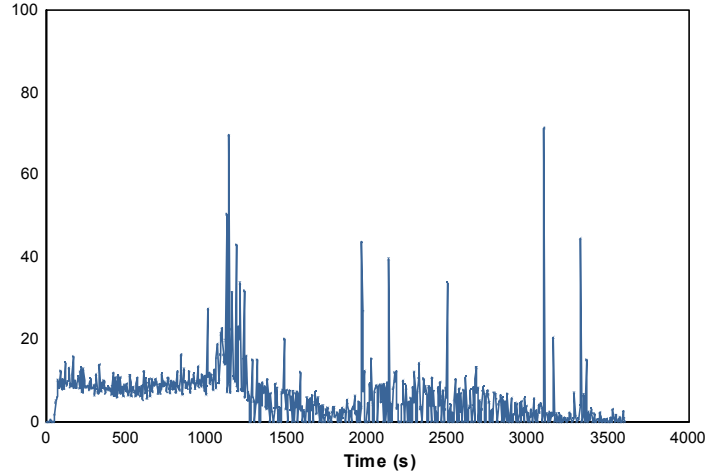
**Test Number :** 19-003251  
**Issue Date :** 19/08/2019  
**Print Date :** 20/08/2019

**Specimen :** 1

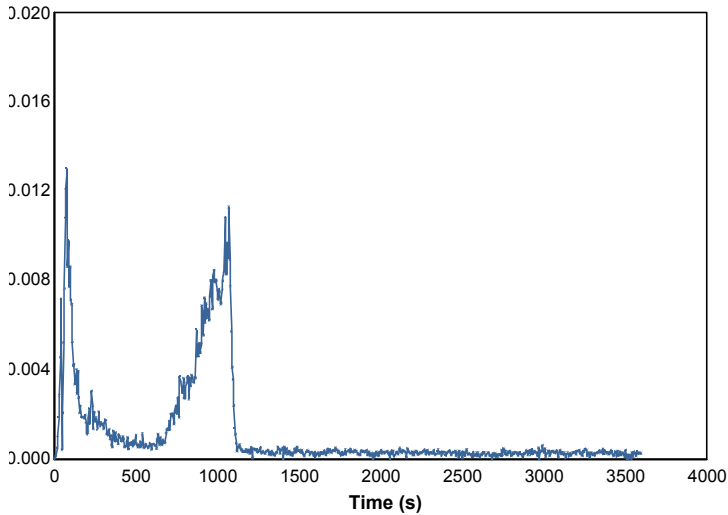
**Heat release rate (kW/m<sup>2</sup>)**



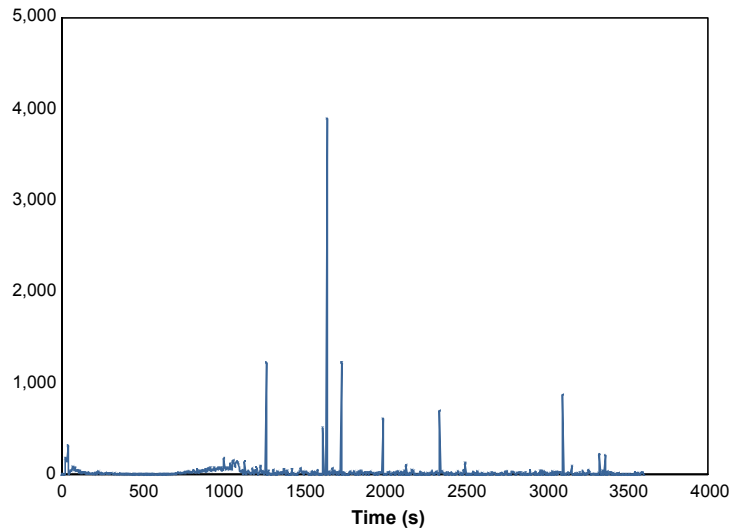
**Effective heat of combustion (MJ/kg)**



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



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



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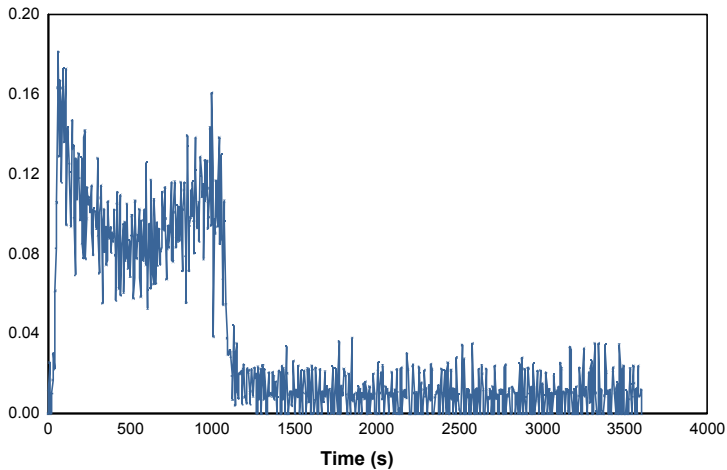
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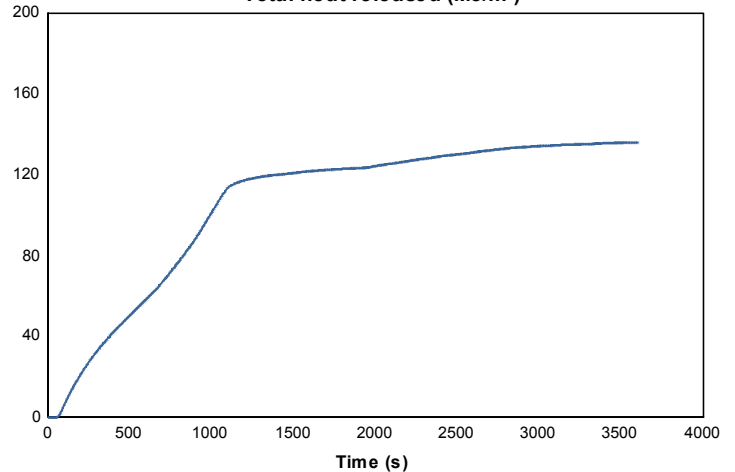
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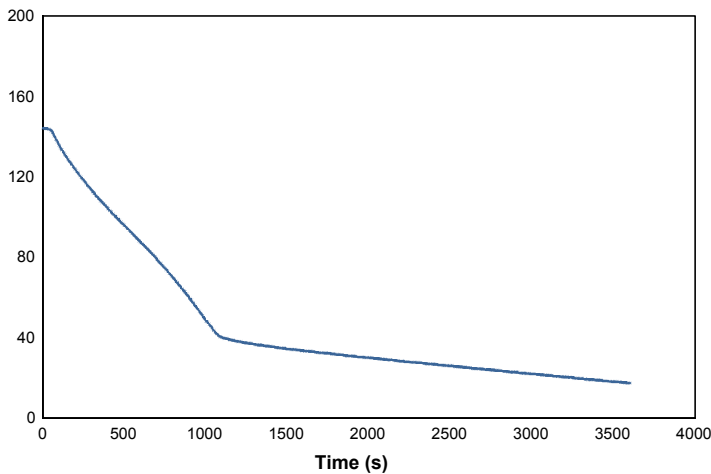
Mass loss rate (g/s)



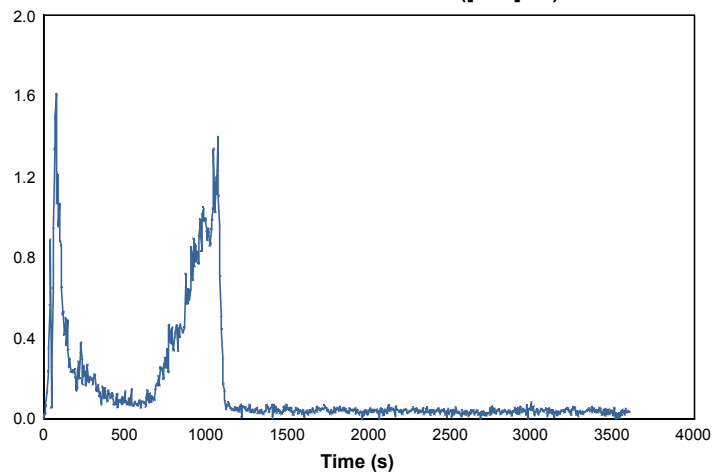
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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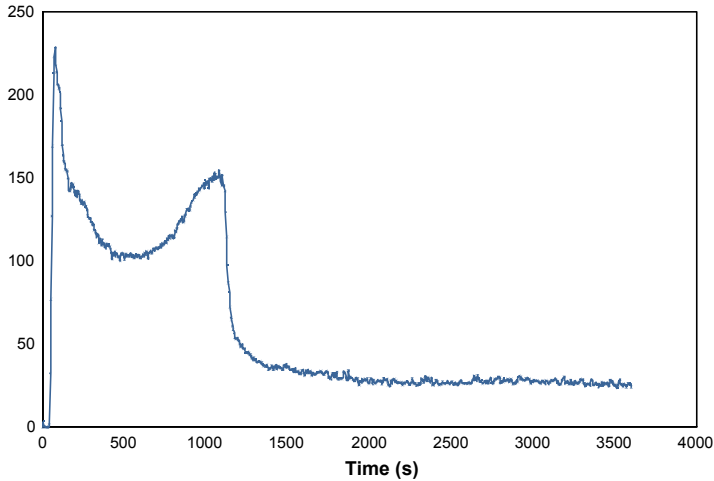
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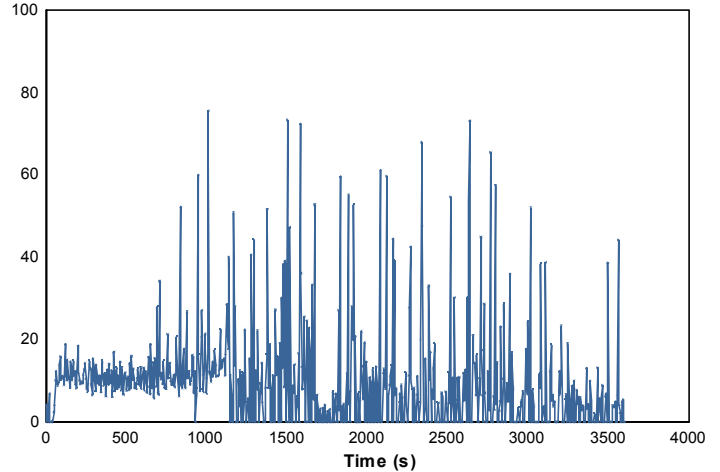
**Test Number :** 19-003251  
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**Specimen :** 2

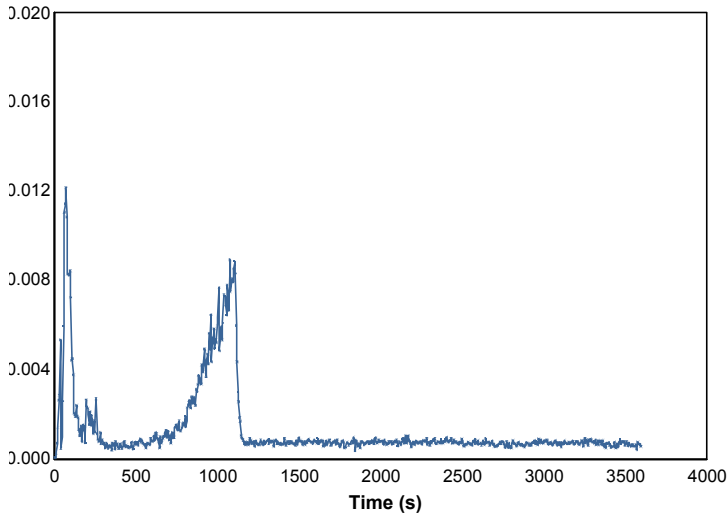
**Heat release rate (kW/m<sup>2</sup>)**



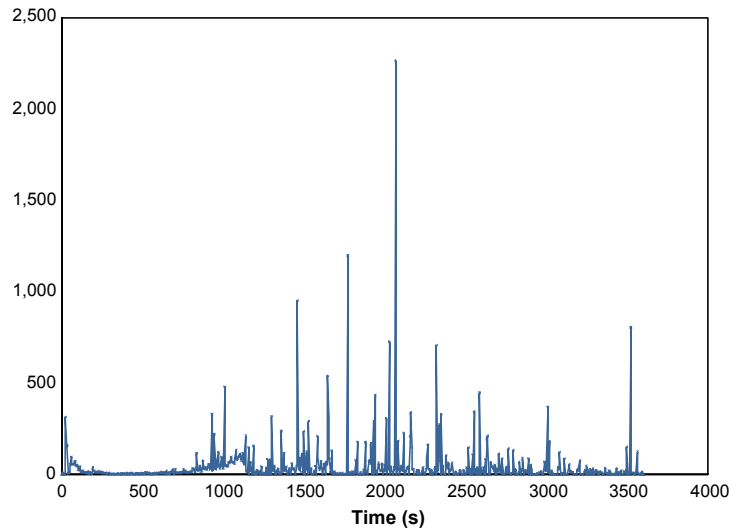
**Effective heat of combustion (MJ/kg)**



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



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



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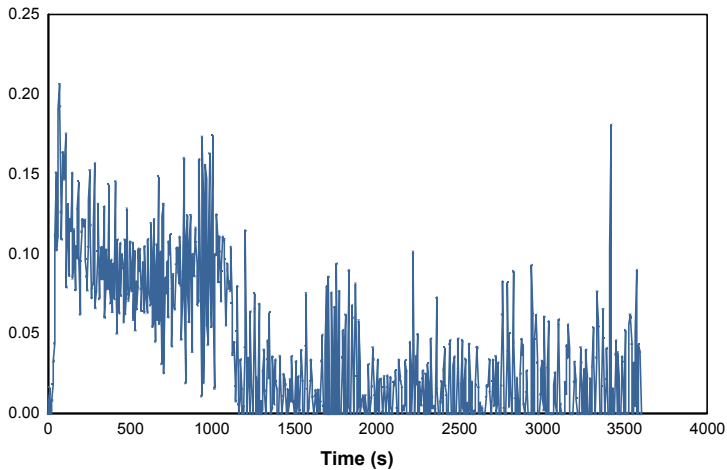
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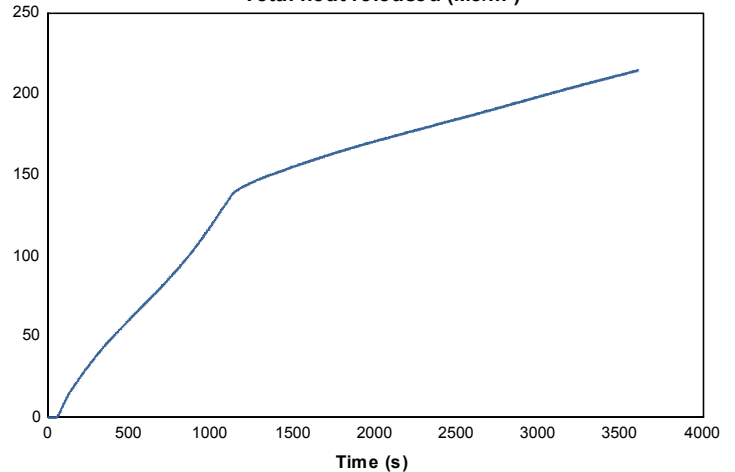
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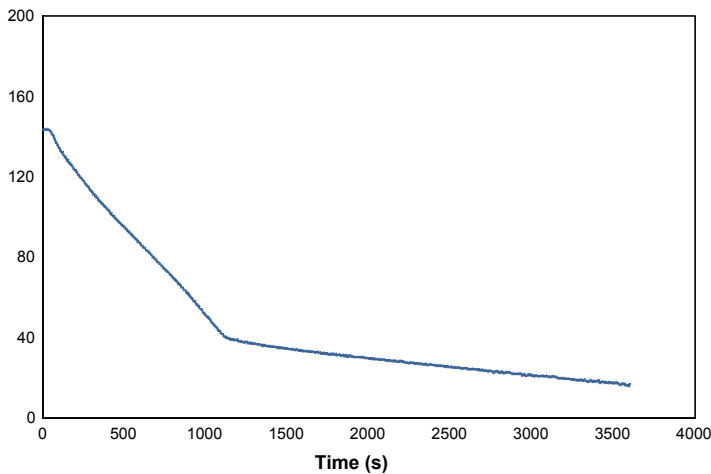
Mass loss rate (g/s)



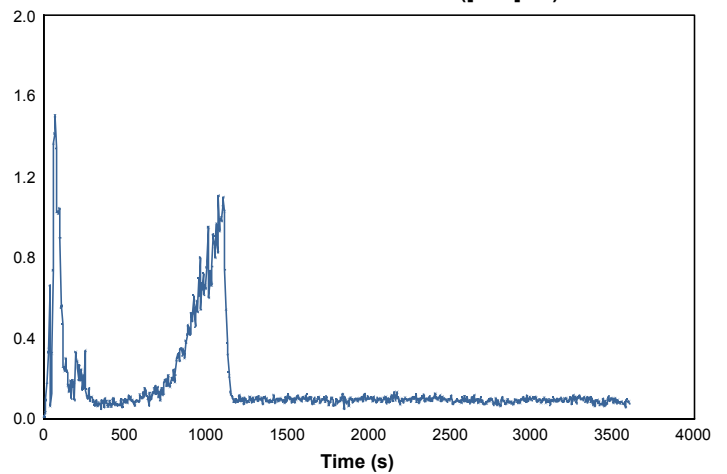
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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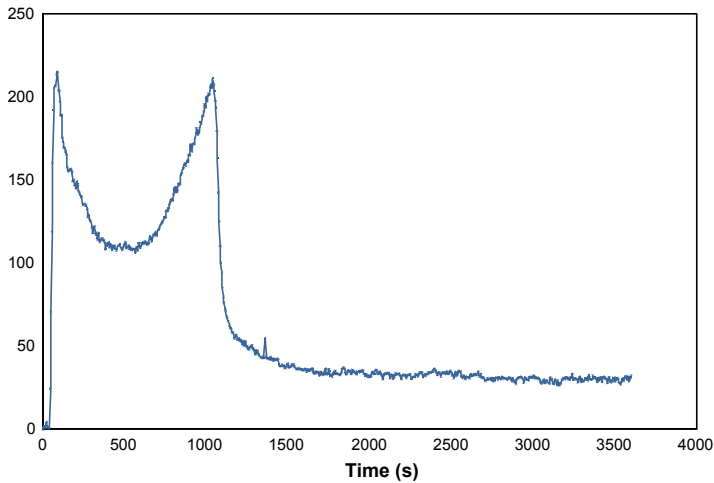
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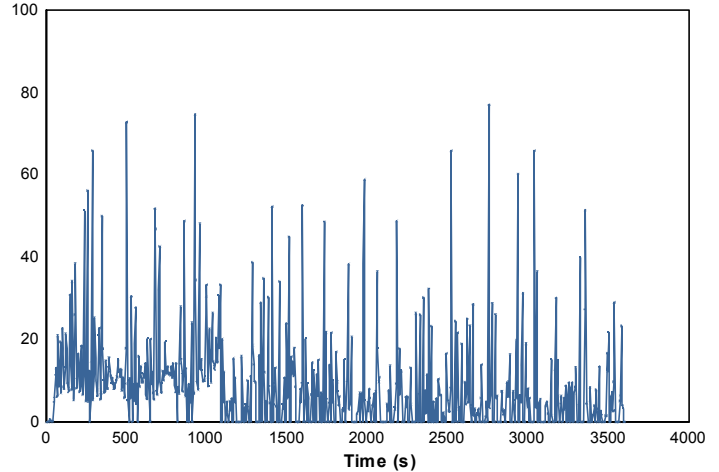
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**Specimen :** 3

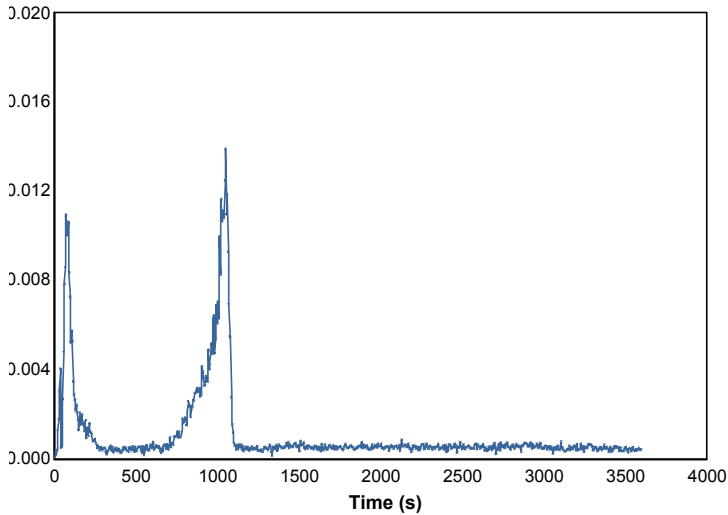
**Heat release rate (kW/m<sup>2</sup>)**



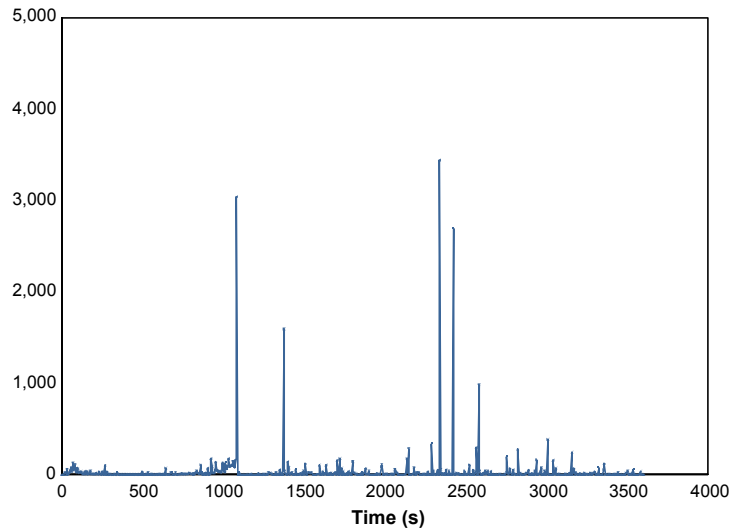
**Effective heat of combustion (MJ/kg)**



**Smoke production rate (l/m²/s)**



**Specific extinction area (m²/kg)**



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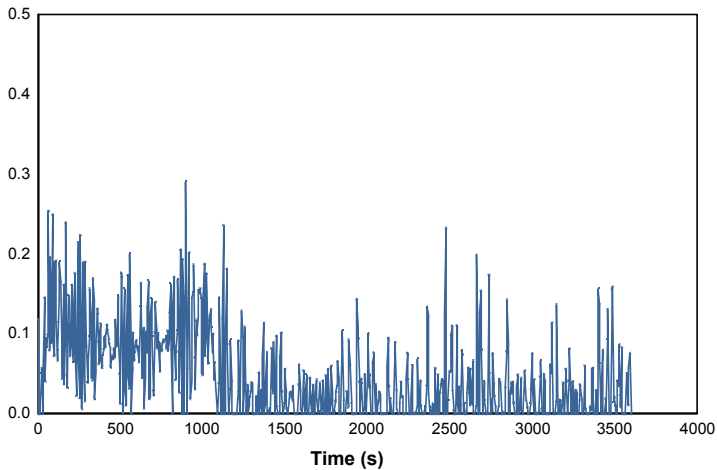
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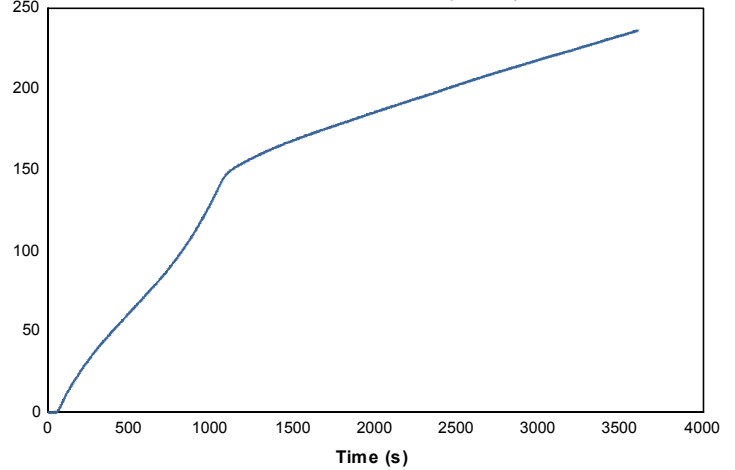
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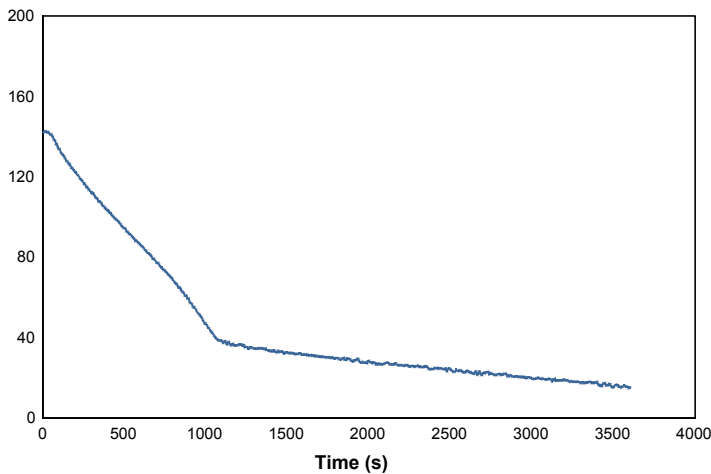
Mass loss rate (g/s)



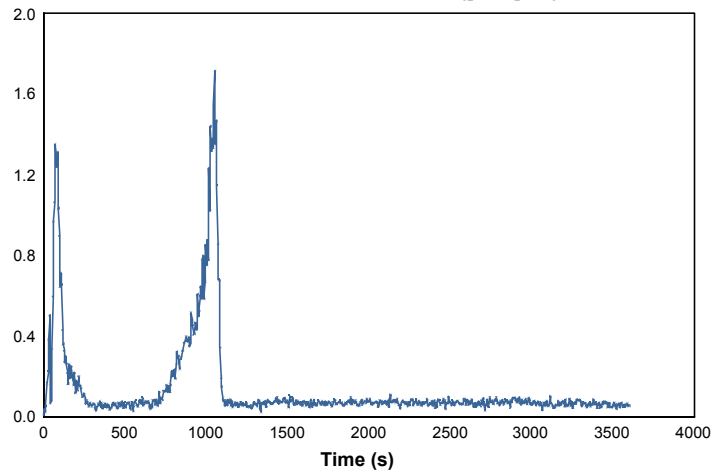
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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