

# 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 ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

**Test Sponsor :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 19-001334  
**Issue Date :** 9/05/2019  
**Print Date :** 24/05/2019

**Sponsor Product** Clients Ref : "Craftwood E0 STD/MR MDF"  
MDF Panel  
Colour : Natural  
Nominal Composition : Softwood fibres bonded with resin  
Nominal Mass per Unit Area/Density : 730kg/m3  
Nominal Thickness : 16mm

Product Group Number Classification : 3  
Average Specific Extinction Area : 43.9 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

34731

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## TEST REPORT

**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 19-001334  
**Issue Date :** 09/05/2019  
**Print Date :** 9/05/2019  
**Order Number :** 3455941

**Sample Description** Clients Ref : "Craftwood E0 STD/MR MDF"  
MDF Panel  
Colour : Natural  
Nominal Composition : Softwood fibres bonded with resin  
Nominal Mass per Unit Area/Density : 730kg/m3  
Nominal Thickness : 16mm

### ISO 5660.1-2015

Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 08/05/2019  
Operator AWTA Test Operator 3  
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	89.7	97.2	97.0	94.6	kW/m <sup>2</sup>
Average Specific extinction area	48.2	43.3	40.3	43.9	m <sup>2</sup> /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	47	39	44	43	sec
Test duration	1847	1839	1844	1843	sec
Peak heat release after ignition	208.7	209.2	225.1	214.3	kW/m <sup>2</sup>
Average heat at 180 s	169.9	168.5	175.9	171.5	kW/m <sup>2</sup>
Average heat at 300 s	152.3	155.6	160.3	156.1	kW/m <sup>2</sup>
Total heat released	161.7	174.8	174.4	170.3	MJ/m <sup>2</sup>

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APPROVED SIGNATORY

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

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Average effective heat of combustion	13.6	15.1	14.7	14.5	MJ/kg
Initial thickness	16	16	16	16.0	mm
Initial mass	119	118.4	118.9	118.8	g
Mass at sustained flaming	118.1	117.9	118.3	118.1	g
Mass remaining	22.9	24.9	22.7	23.5	g
Mass loss	11864.8	11539.8	11873.9	11759.5	g/m <sup>2</sup>
Average rate of mass loss	6.6	6.4	6.6	6.5	g/m <sup>2</sup> .s
Total smoke Production (Non Flaming phase)	9.6	4.8	6.7	7.0	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Flaming phase)	571.9	502.8	480.0	518.2	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Non Flaming & Flaming phase)	581.5	507.6	486.7	525.3	m <sup>2</sup> /m <sup>2</sup>
Specimen Surface area	0.00810	0.00810	0.00810	-	m <sup>2</sup>
C-Factor (Calibration Constant)	0.038659	0.038659	0.038659	-	-
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.

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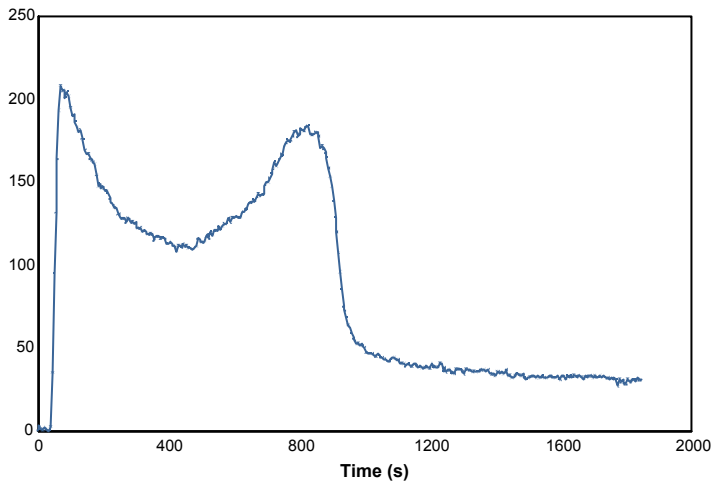
## TEST REPORT

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22 Trewin Street  
Wendouree VIC 3355

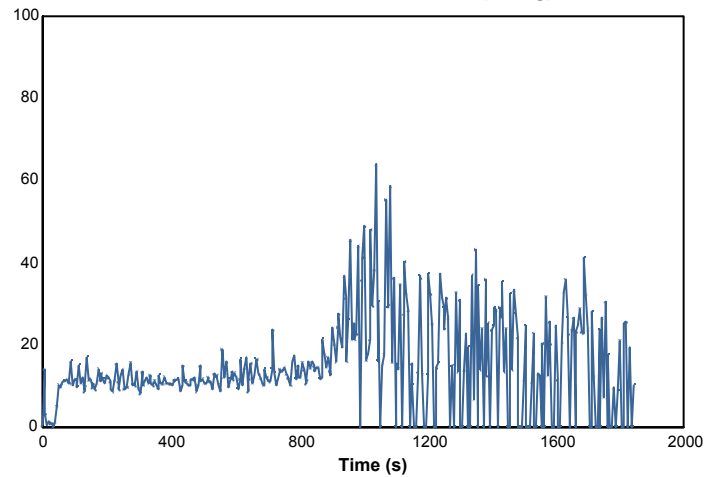
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**Issue Date :** 09/05/2019  
**Print Date :** 9/05/2019  
**Order Number :** 3455941

**Specimen :** 1

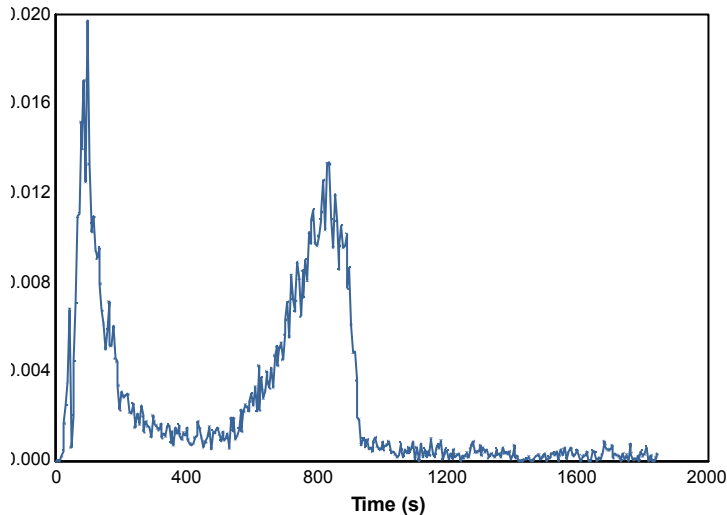
Heat release rate (kW/m<sup>2</sup>)



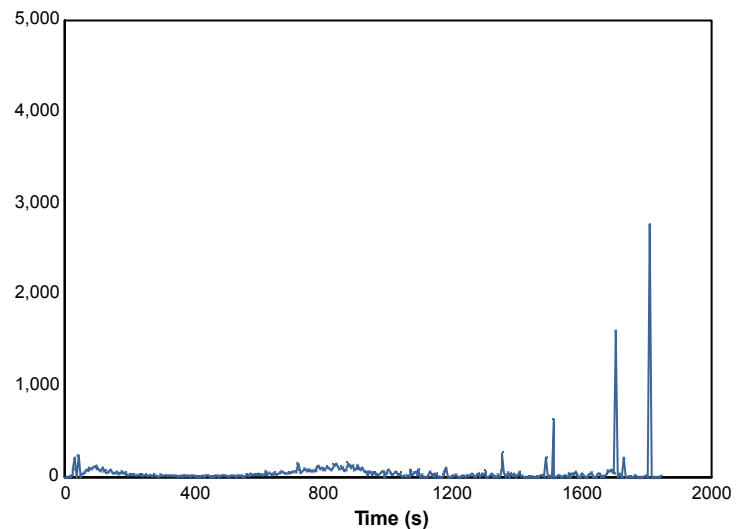
Effective heat of combustion (MJ/kg)



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



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



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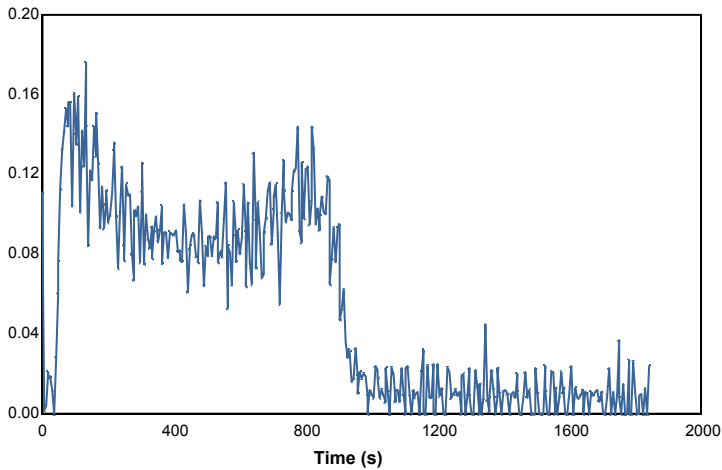
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## TEST REPORT

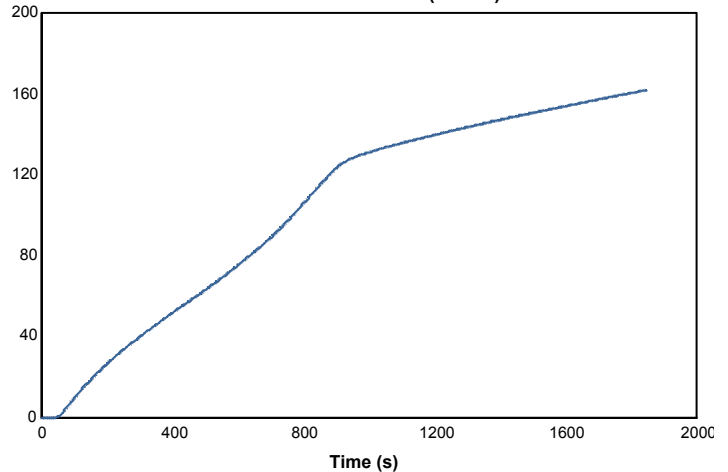
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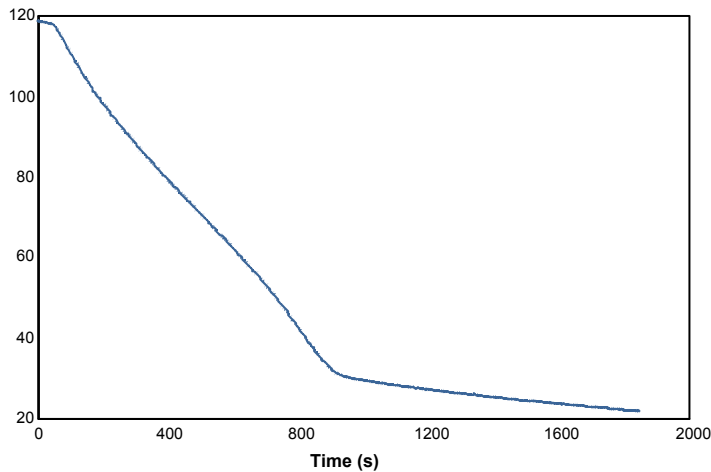
Mass loss rate (g/s)



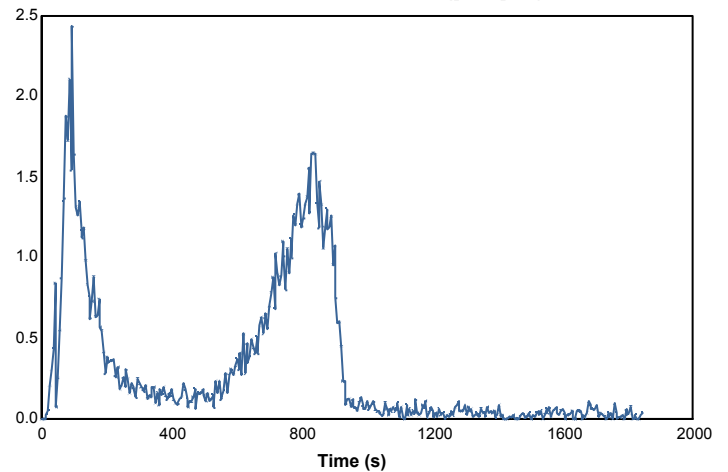
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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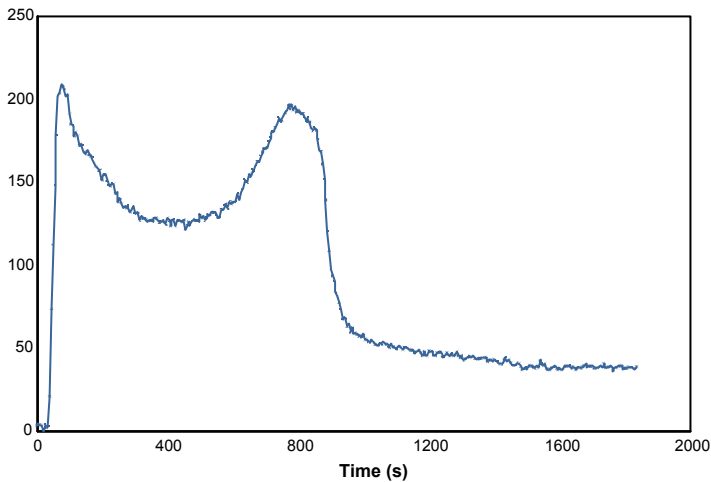
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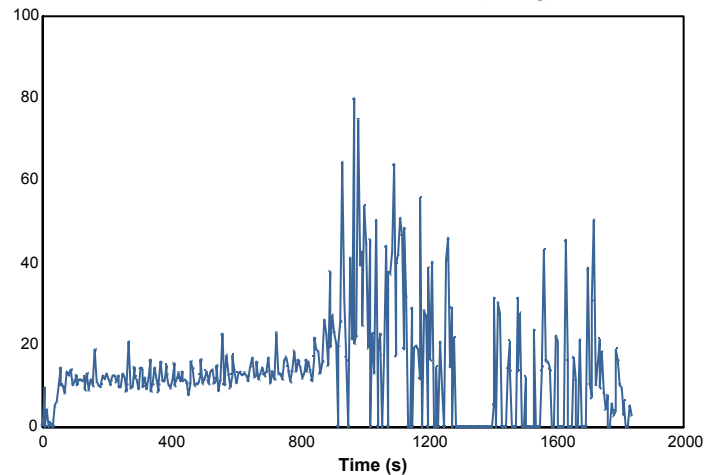
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**Specimen :** 2

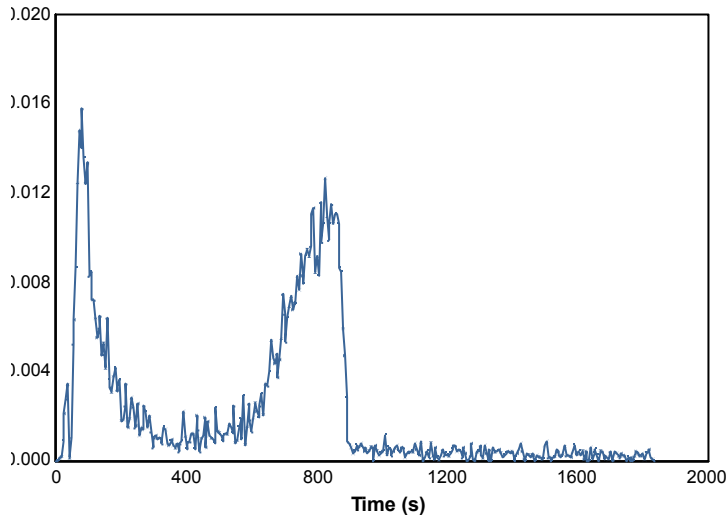
Heat release rate (kW/m<sup>2</sup>)



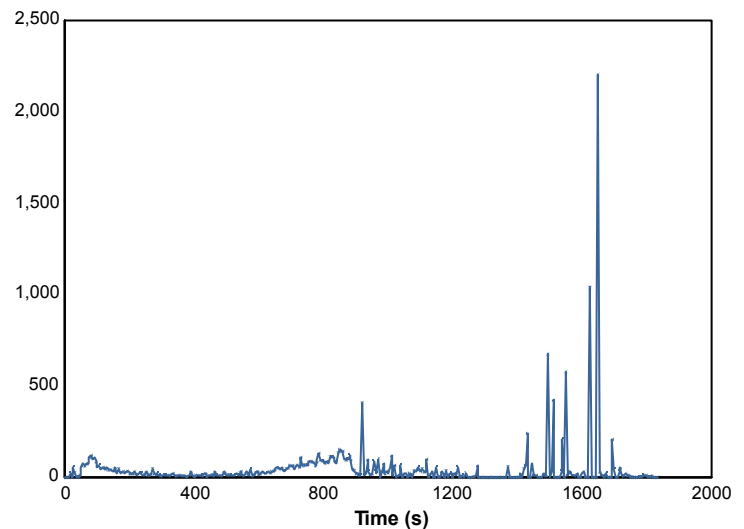
Effective heat of combustion (MJ/kg)



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



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



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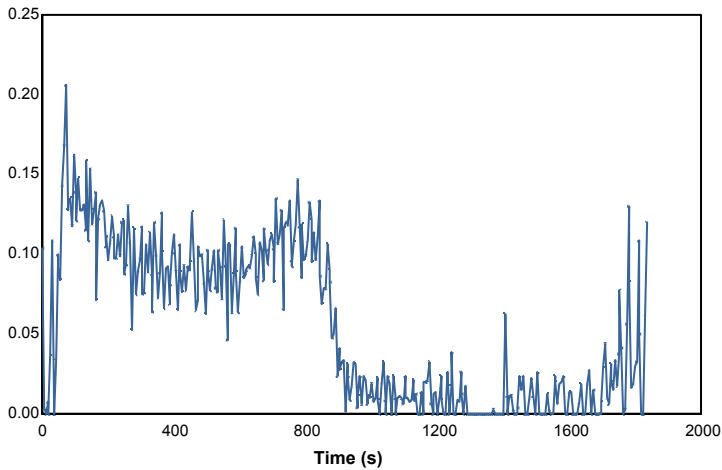
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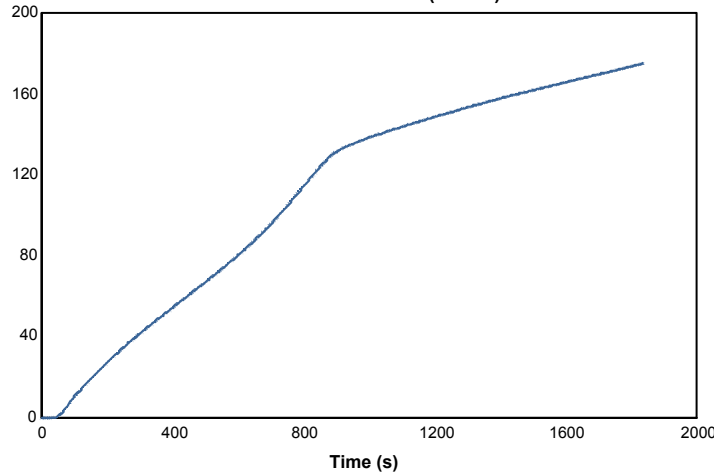
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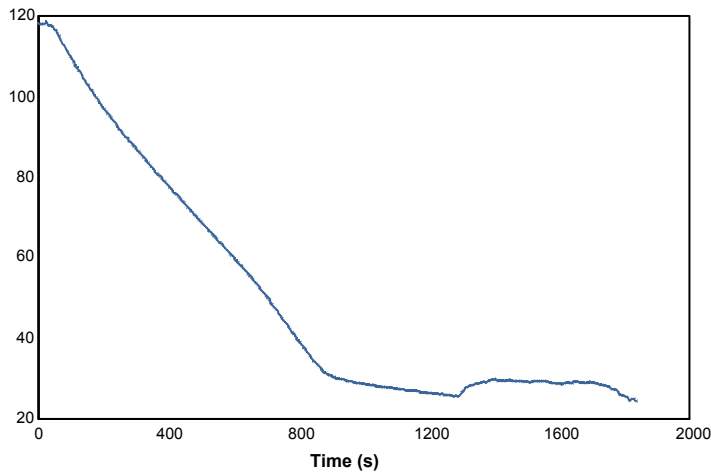
Mass loss rate (g/s)



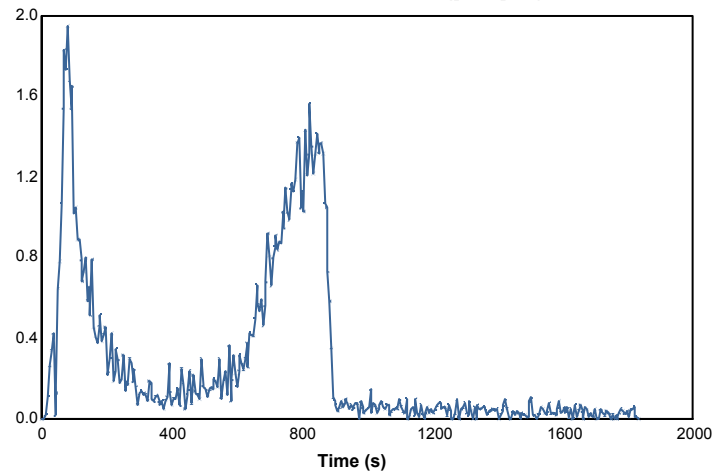
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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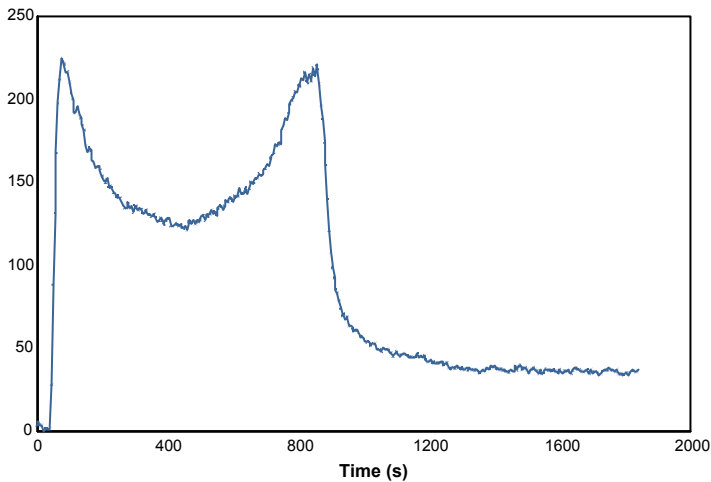
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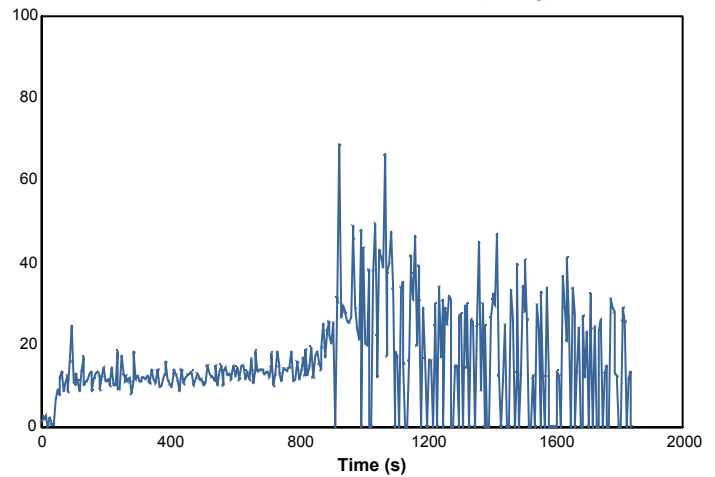
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**Specimen :** 3

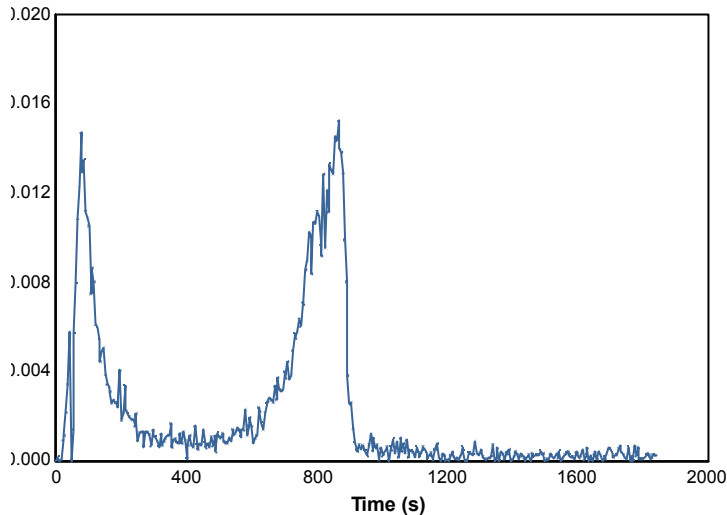
Heat release rate (kW/m<sup>2</sup>)



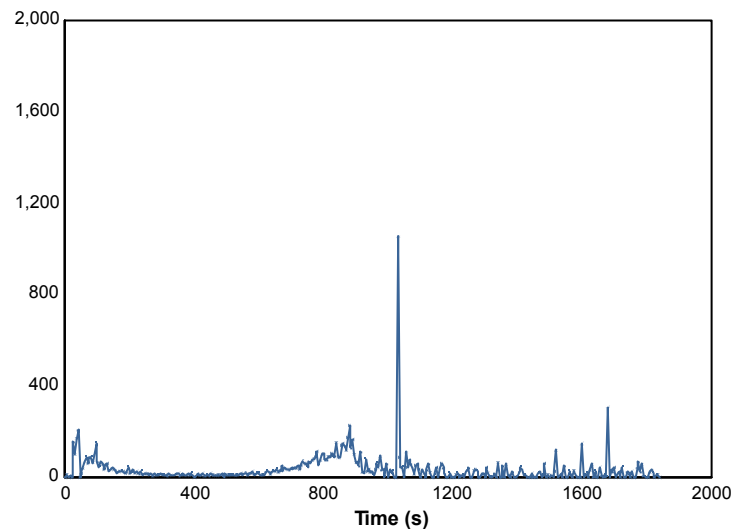
Effective heat of combustion (MJ/kg)



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



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



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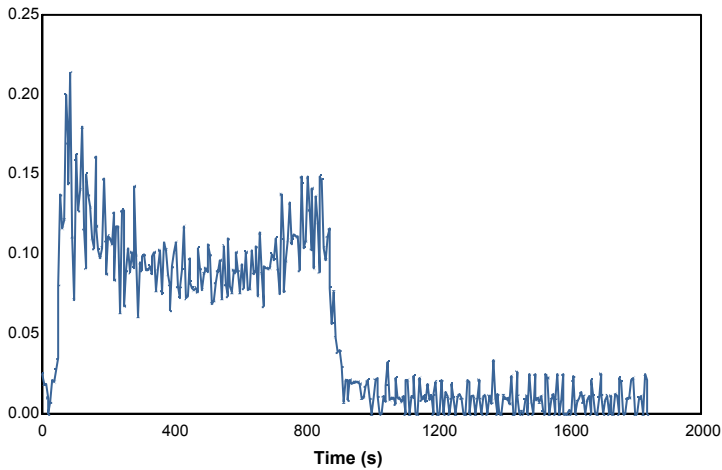
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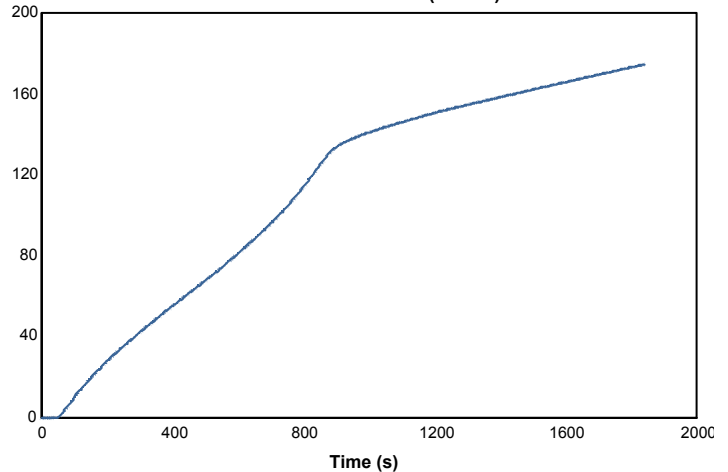
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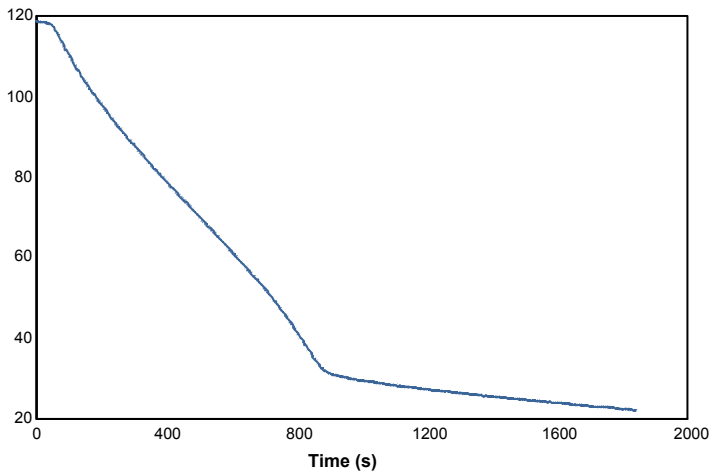
Mass loss rate (g/s)



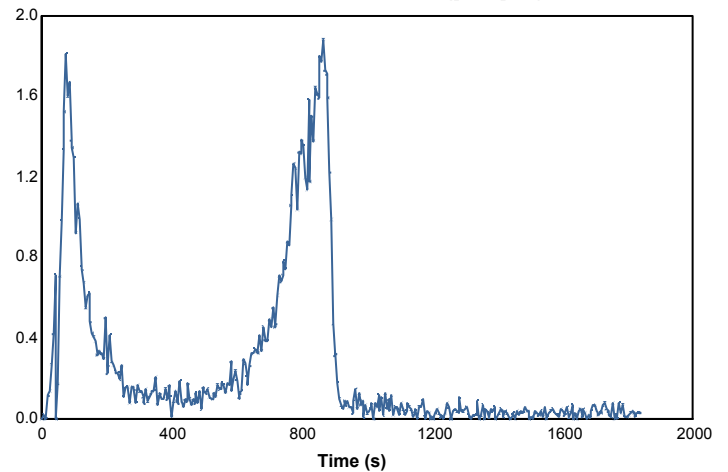
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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