

# 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

## TEST REPORT

**Client :** The Laminex Group  
PO Box 720  
Wendouree VIC 3355

**Test Number :** 15-000776  
**Issue Date :** 27/02/2015  
**Print Date :** 27/02/2015  
**Order Number :** 2006

**Sample Description** Clients Ref : Laminex Structural MR EO MDF  
MDF with coated faces  
Colour : White  
Nominal Composition : Select grade MR EO MDF with decorated LPM surface and glass bead impregnated resin surface  
Nominal Mass per Unit Area/Density : 840kg/m<sup>3</sup>  
Nominal Thickness : 18mm

### ISO 5660.1-2002

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

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	89.6	90.0	84.9	88.1	kW/m <sup>2</sup>
Group Number Classification	3	3	3		

(In Accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

Average Specific extinction area	20.3	20.3	15.4	18.6	m <sup>2</sup> /kg
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(According to ISO 5660.2-2002)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	57	74	68	66	sec
Test duration	1857	1874	1868	1866	sec

10,262

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Page 1 of 8

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- Heat & Temperature Measurement : Accreditation No. 1356

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

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Peak heat release after ignition	151.4	152.6	162.0	155.3	kW/m <sup>2</sup>
Average heat at 60 s	77.0	89.6	102.9	89.8	kW/m <sup>2</sup>
Average heat at 180 s	116.6	124.8	135.9	125.8	kW/m <sup>2</sup>
Average heat at 300 s	120.0	125.0	128.8	124.6	kW/m <sup>2</sup>
Total heat released	161.0	161.8	152.6	158.5	MJ/m <sup>2</sup>
Average effective heat of combustion	11.3	11.5	11.6	11.4	MJ/kg
Initial thickness	18.0	18.0	18.0	18.0	mm
Initial mass	151.6	150.6	140.5	147.6	g
Mass remaining	35.2	35.0	32.1	34.1	g
Mass percentage pyrolysed	76.8	76.8	77.1	76.9	%
Mass loss	116.4	115.6	108.4	113.5	g
Average rate of mass loss	7.9	7.8	7.3	7.7	g/m <sup>2</sup> .s

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.

Note: All calculations are based on ignition + 30 minutes.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

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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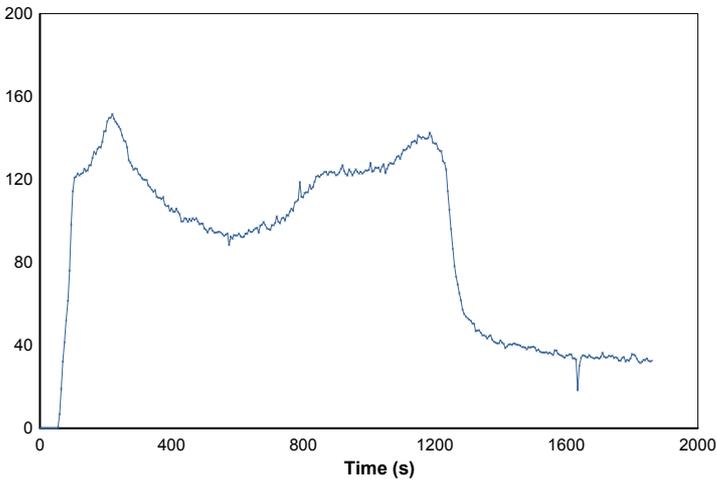
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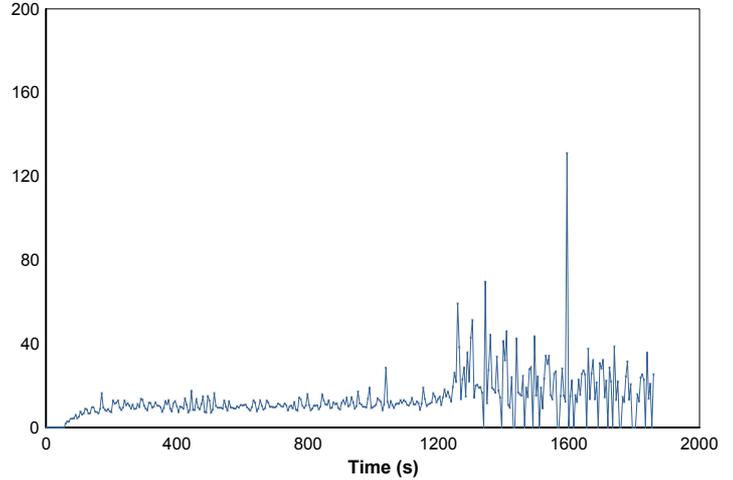
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**Print Date :** 27/02/2015  
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**Specimen :** 1

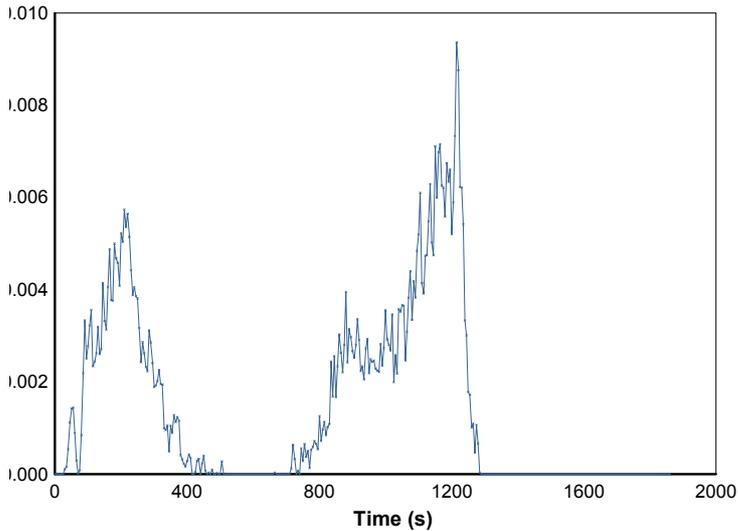
**Heat release rate (kW/m<sup>2</sup>)**



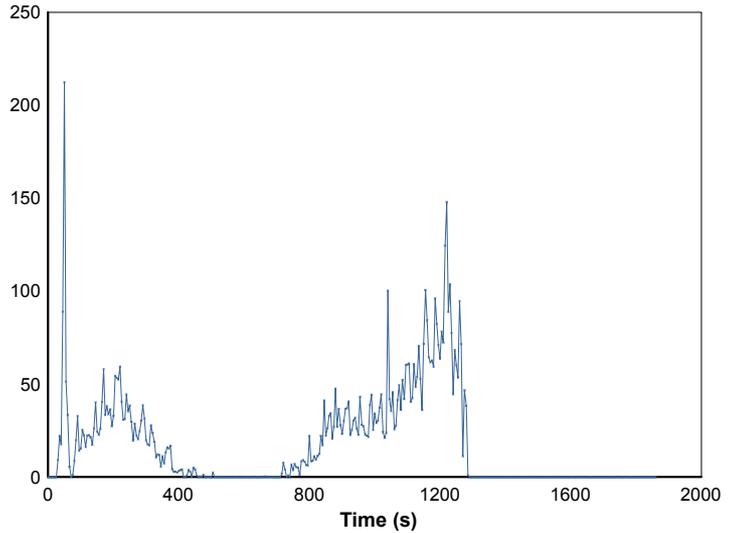
**Effective heat of combustion (MJ/kg)**



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



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



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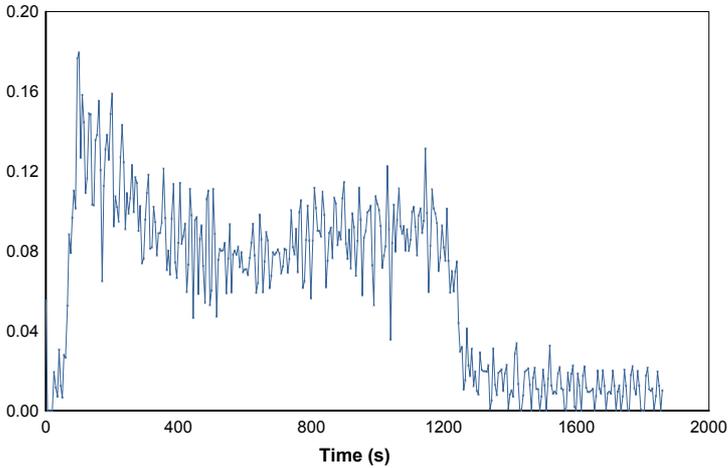
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
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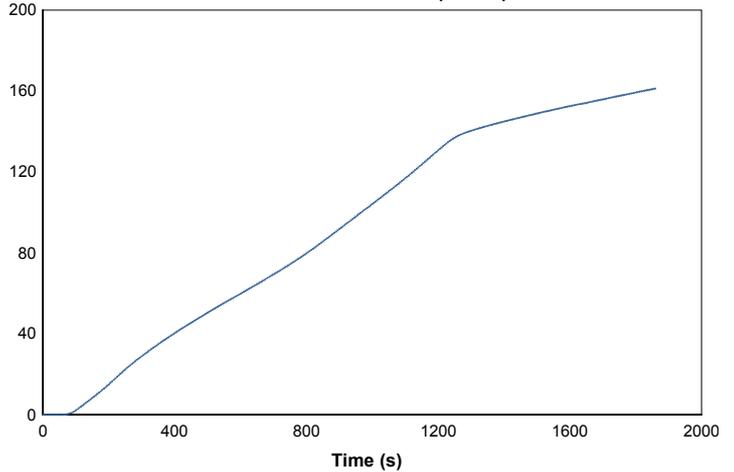
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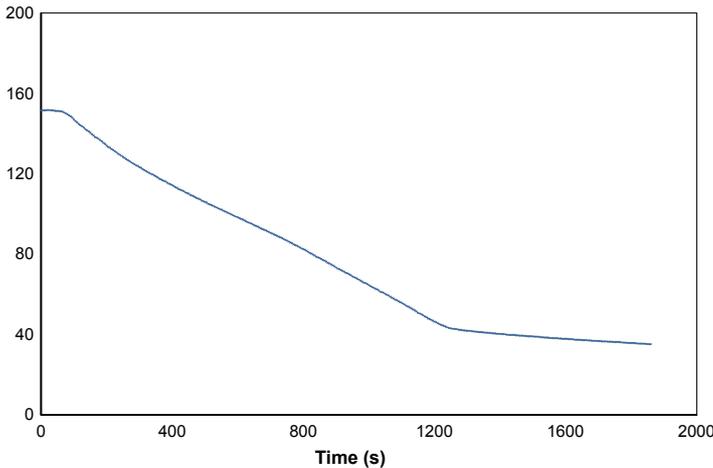
Mass loss rate (g/s)



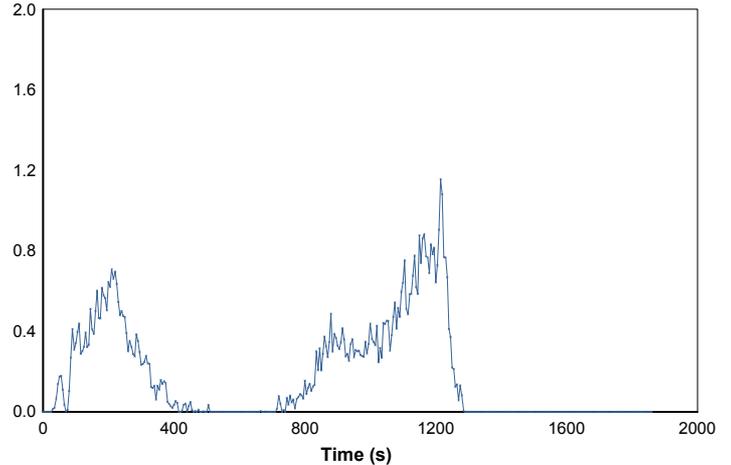
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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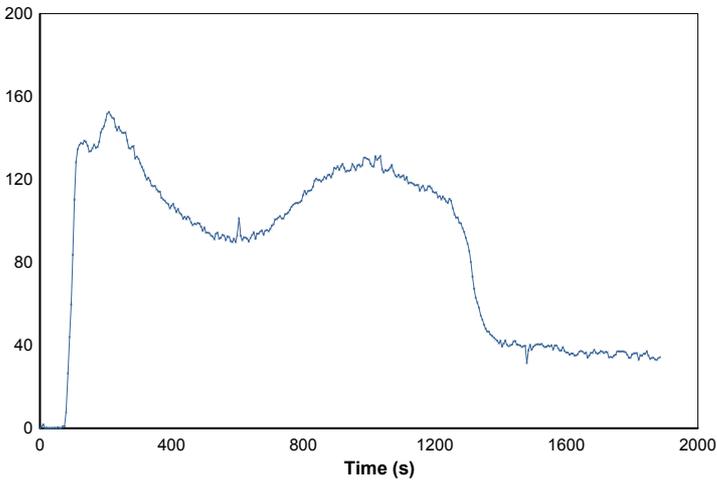
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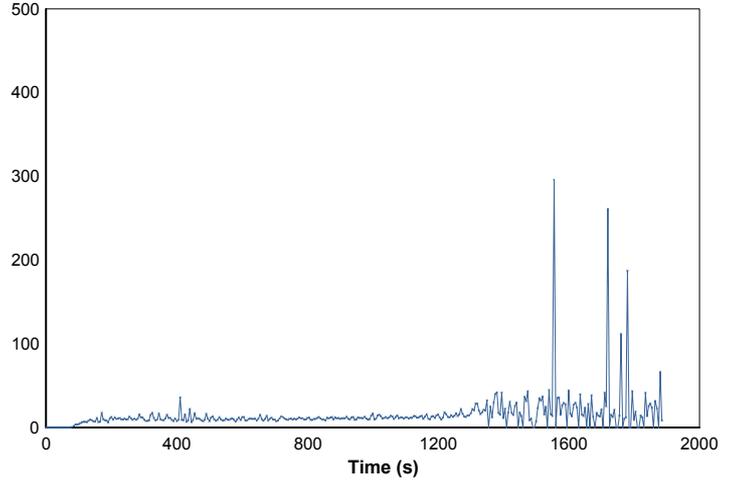
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Specimen : 2

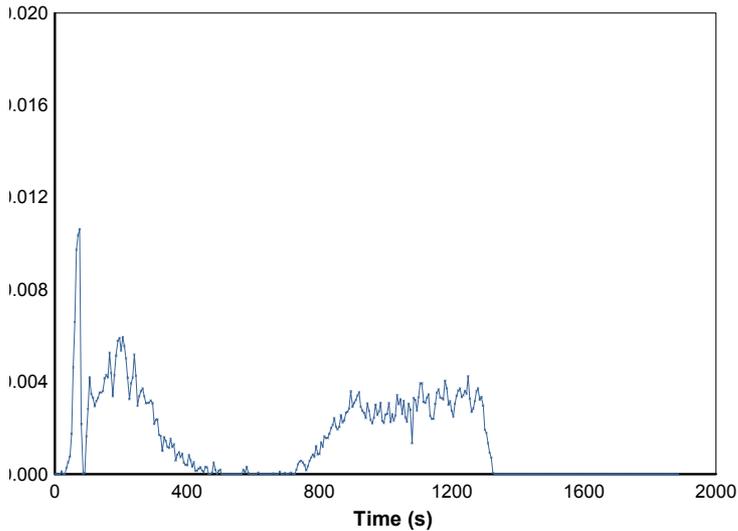
Heat release rate (kW/m<sup>2</sup>)



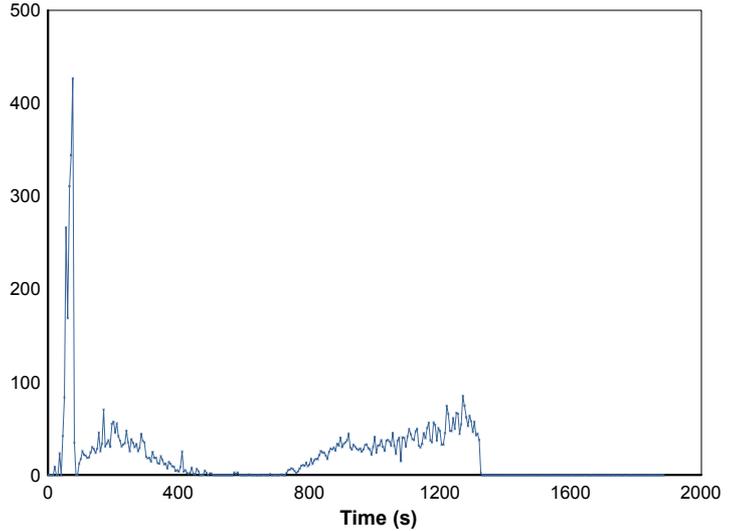
Effective heat of combustion (MJ/kg)



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



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



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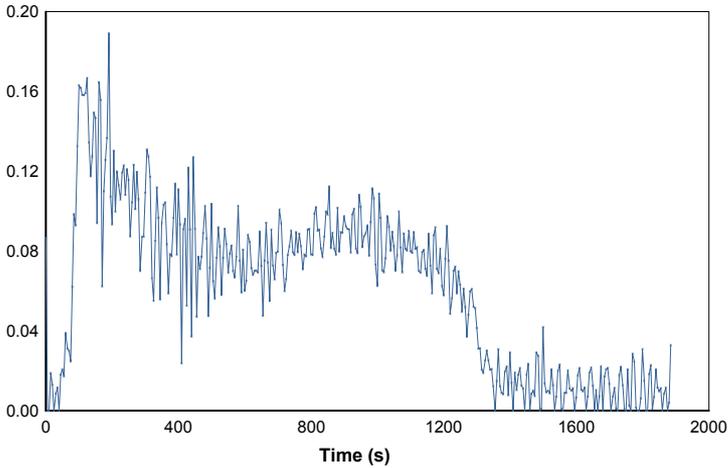
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
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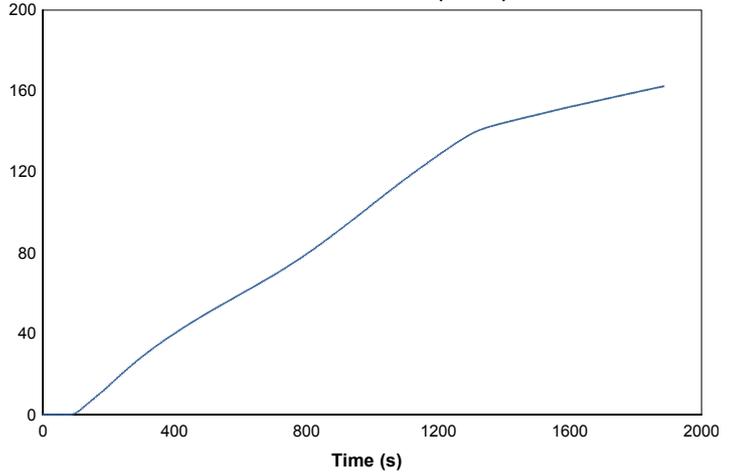
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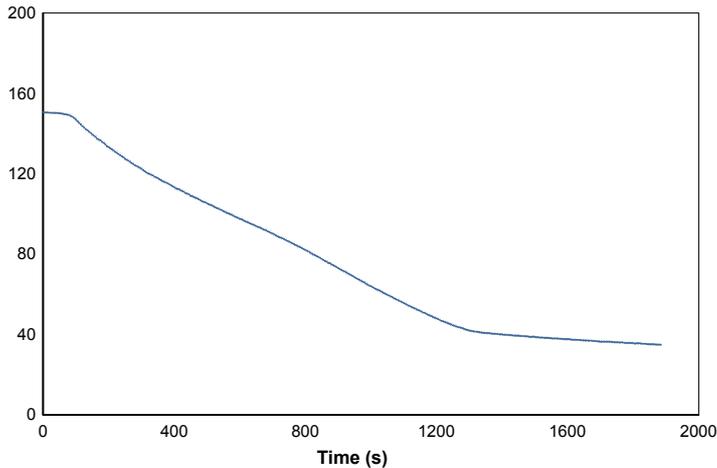
Mass loss rate (g/s)



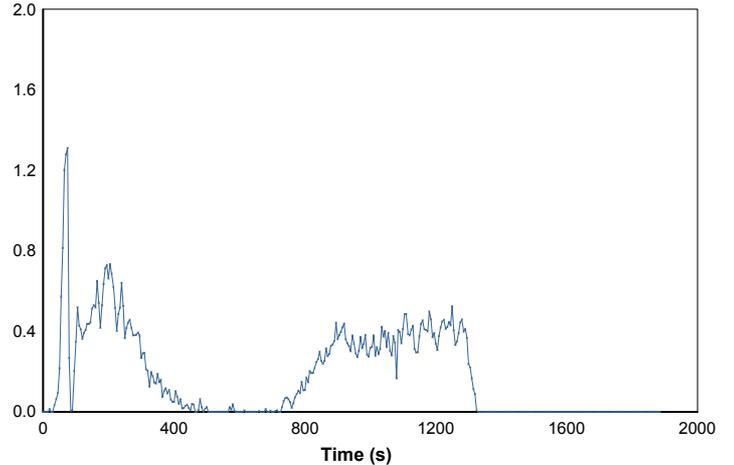
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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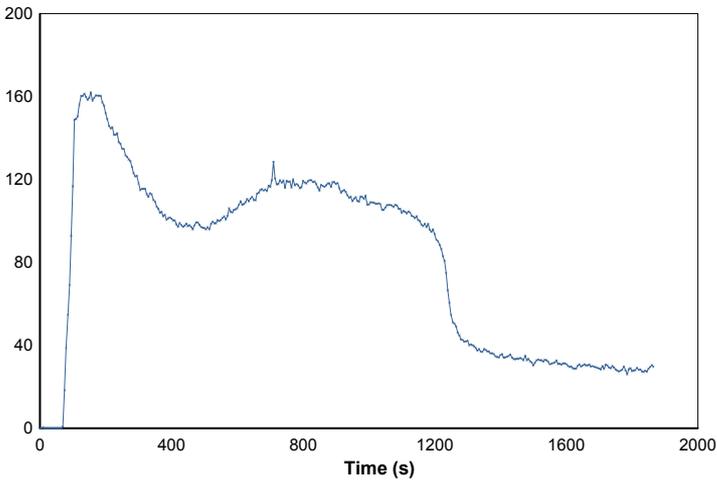
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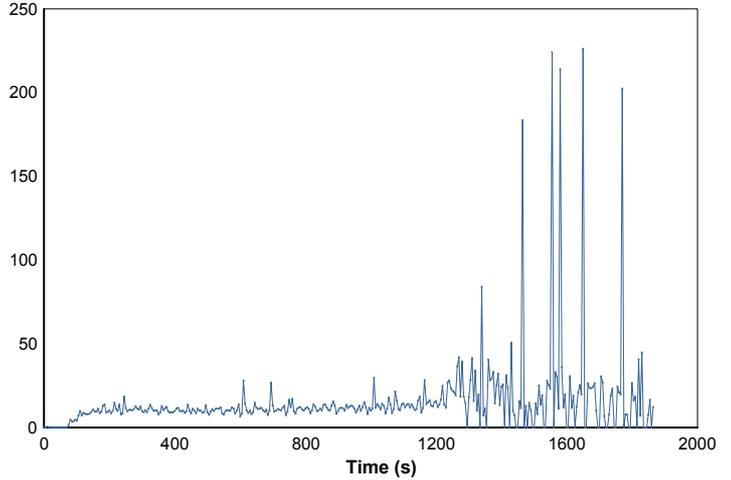
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**Specimen :** 3

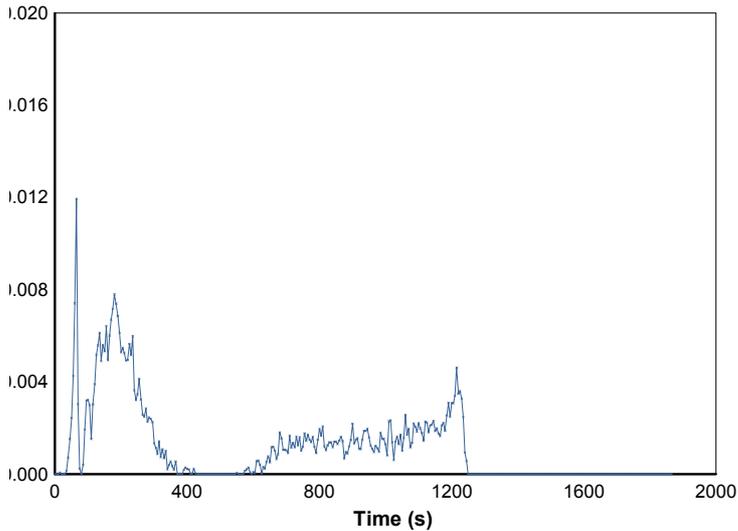
**Heat release rate (kW/m<sup>2</sup>)**



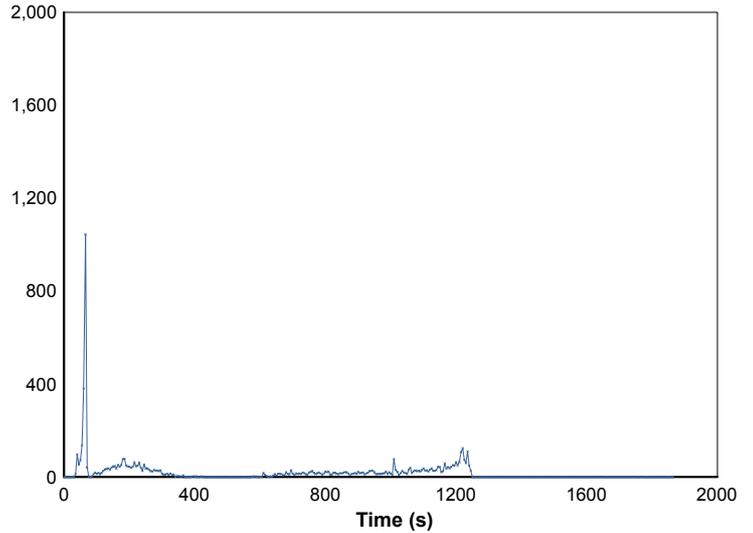
**Effective heat of combustion (MJ/kg)**



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



**Specific extinction area (m²/kg)**



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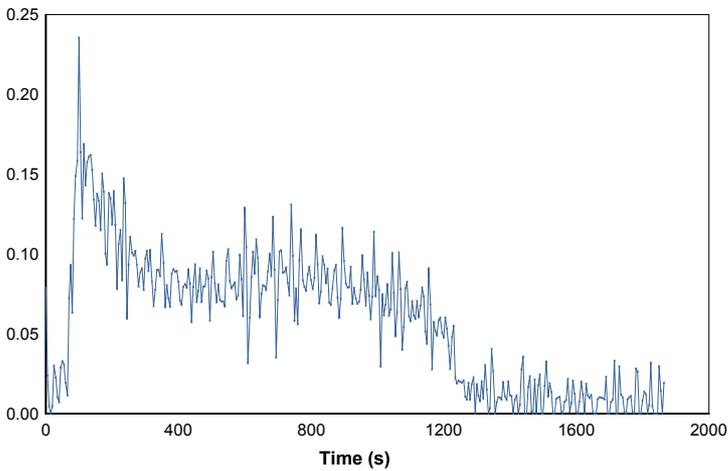
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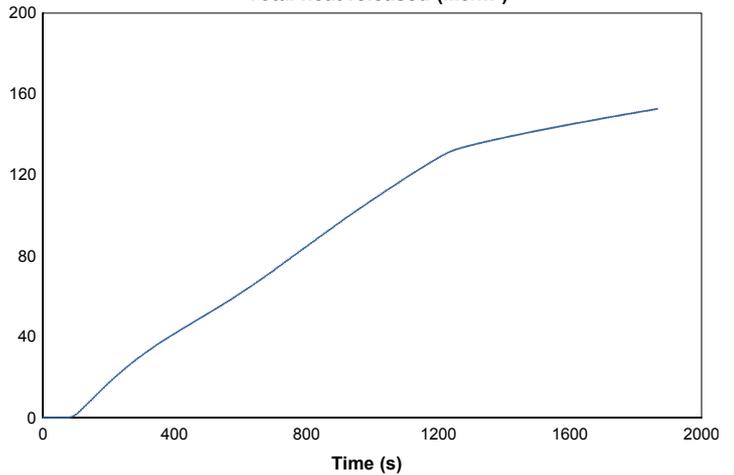
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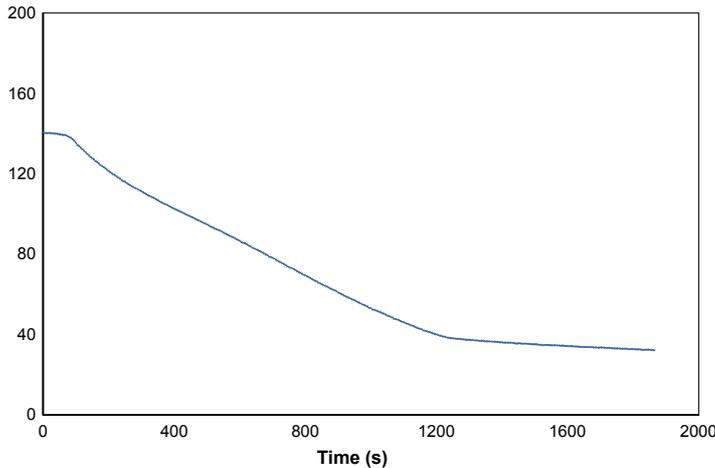
Mass loss rate (g/s)



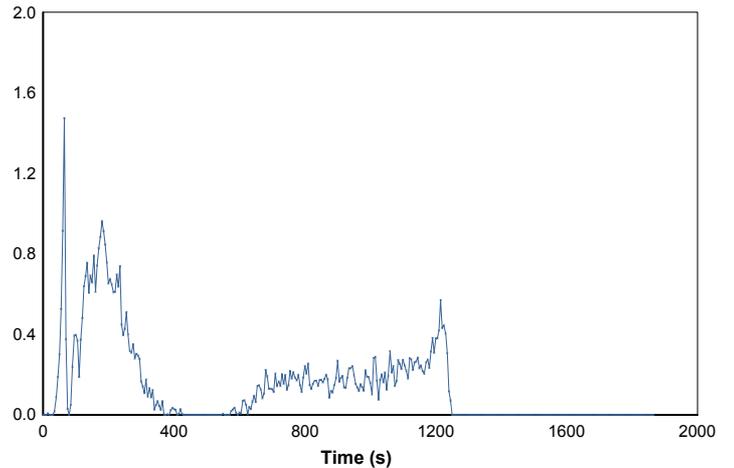
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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