

# 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 :** Bailey Interiors  
83-85 Boundary Road  
Mortdale NSW 2223

**Test Number :** 15-002457  
**Issue Date :** 09/06/2015  
**Print Date :** 8/05/2018

### Replacement of Initial Report dated :09/06/2015

**Sample Description** Clients Ref : "Shadex; Hush; Eco Check; New Shadex; Random"  
White molded plaster ceiling tiles  
Colour : White  
End Use : Acoustic paneling  
Nominal Composition : Plaster  
Nominal Thickness : 28mm

#### 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	fti	fti	fti	fti	kW/m <sup>2</sup>
Group Number Classification	1	1	1		
(In Accordance with New Zealand Building Code Verification Method C/M2 Appendix A)					
Average Specific extinction area	0.2	0.1	1.4	0.6	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	24	24	24	24	L/sec
Time to sustained flaming	fti	fti	fti	fti	sec
Test duration	1800	1800	1800	1800	sec

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APPROVED SIGNATORY

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

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Initial thickness	28.0	28.0	28.0	28.0	mm
Initial mass	169.1	173	183.4	175.2	g
Mass remaining	138.5	144.6	141.8	141.6	g
Mass percentage pyrolysed	18.1	16.4	22.7	19.1	%
Mass loss	30.6	28.4	41.6	33.5	g
Average rate of mass loss	1.9	1.8	2.0	1.9	g/m <sup>2</sup> .s

fti = failed to ignite

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 : The sample has a heat release rate of less than 50 kW/m<sup>2</sup>. In accordance with New Zealand Building Code verification Method C/VM2 Appendix A this product shall be classified as Group 1.

If a different classification group is obtained for different specimens tested, then the highest (worst) classification for any specimen must be taken as the final classification for that material.

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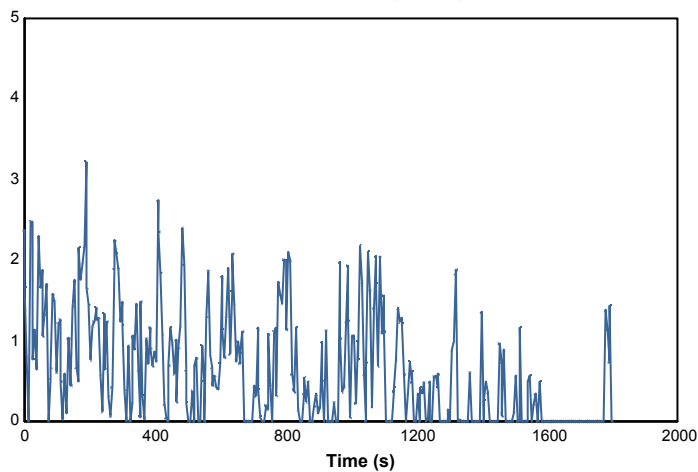
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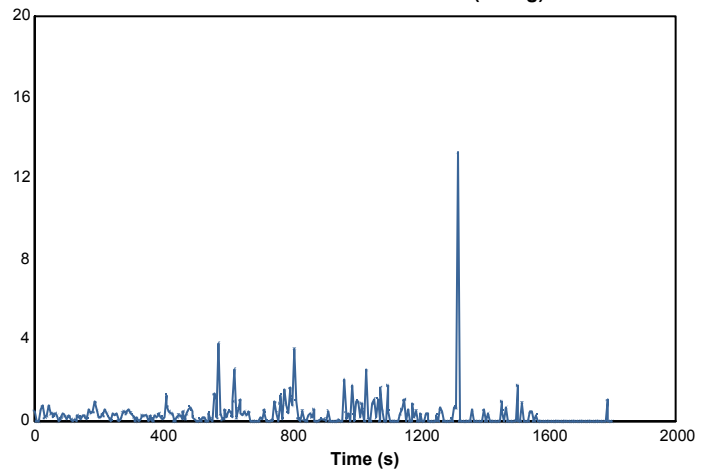
**Replacement of Initial Report dated :09/06/2015**

**Specimen :** 1

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



Effective heat of combustion (MJ/kg)



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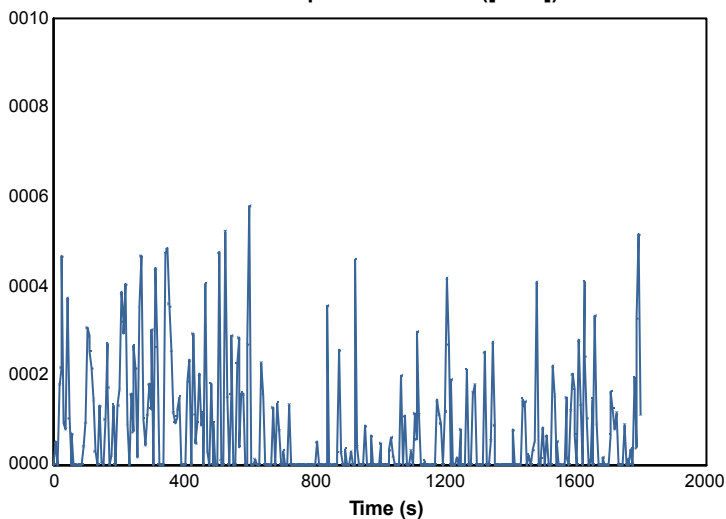
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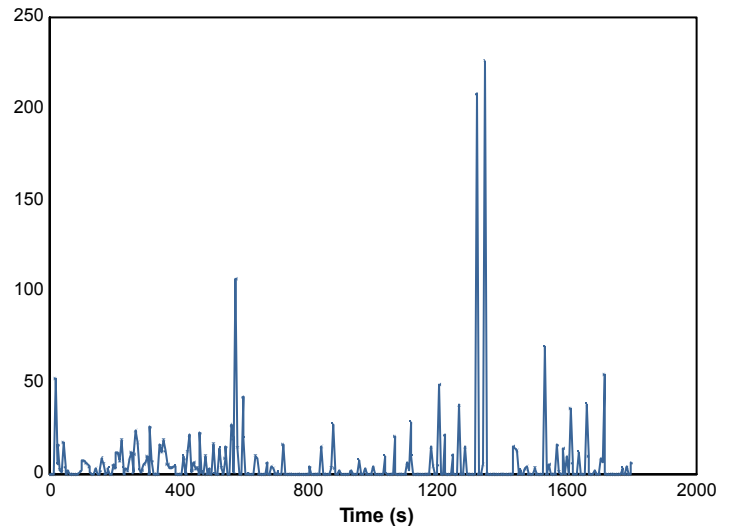
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**Replacement of Initial Report dated :09/06/2015**

**Smoke production rate ( $\text{m}^2/\text{s}$ )**



**Specific extinction area ( $\text{m}^2/\text{kg}$ )**



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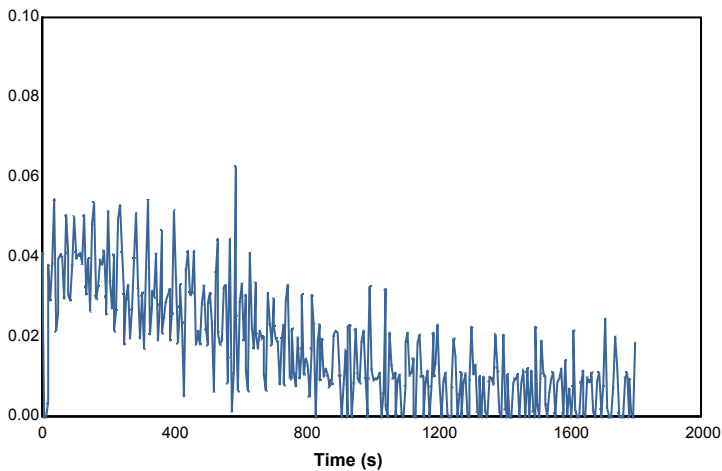
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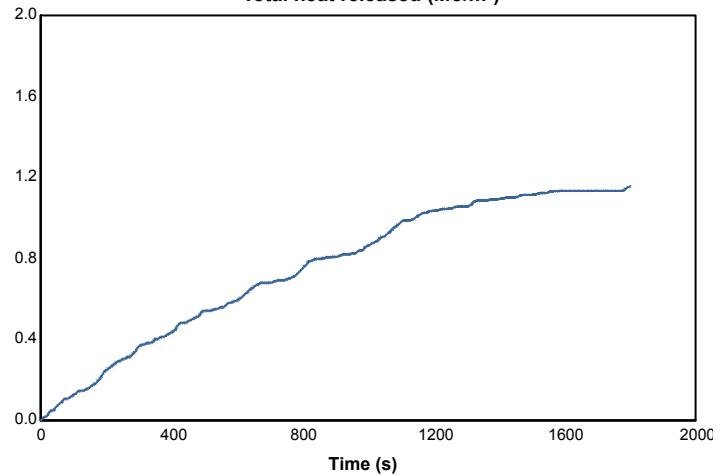
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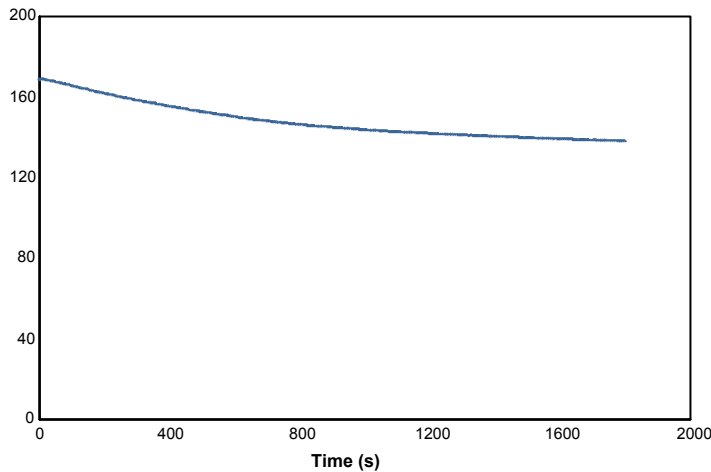
Mass loss rate (g/s)



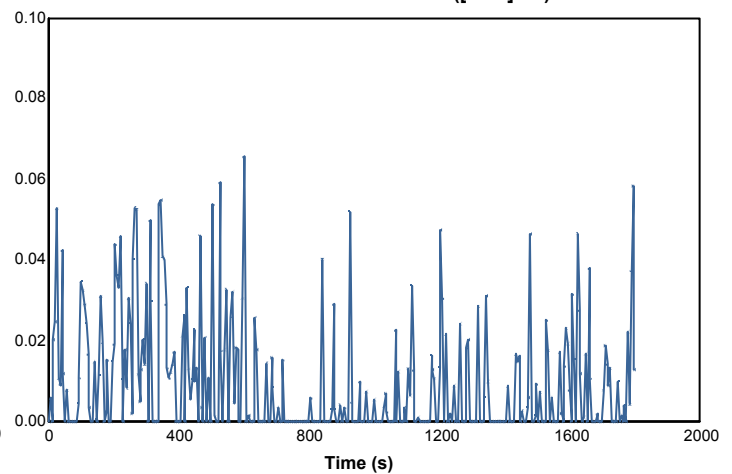
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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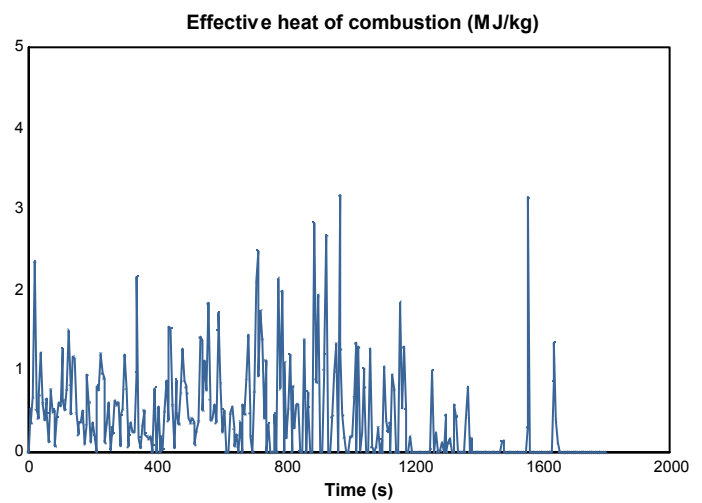
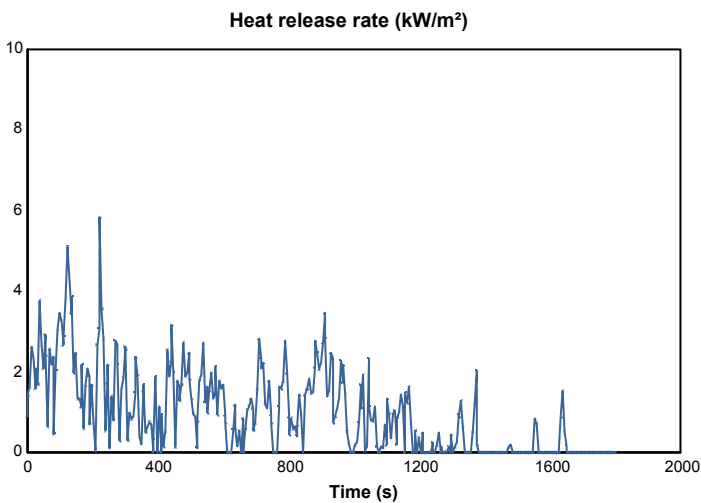
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**Replacement of Initial Report dated :09/06/2015**

**Specimen :** 2



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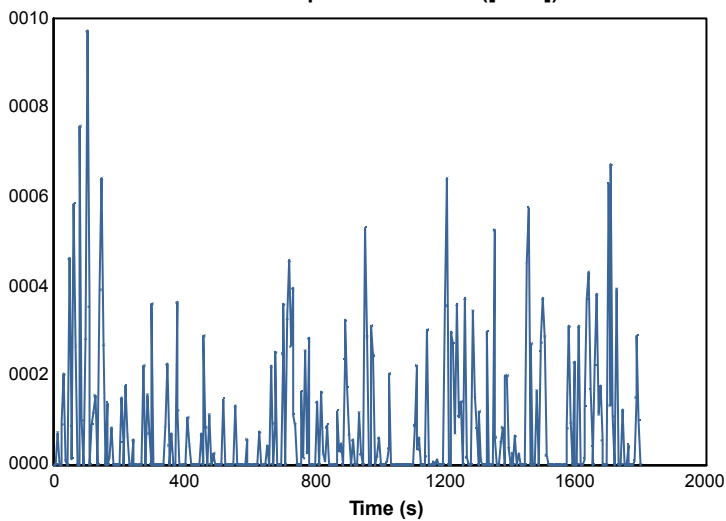
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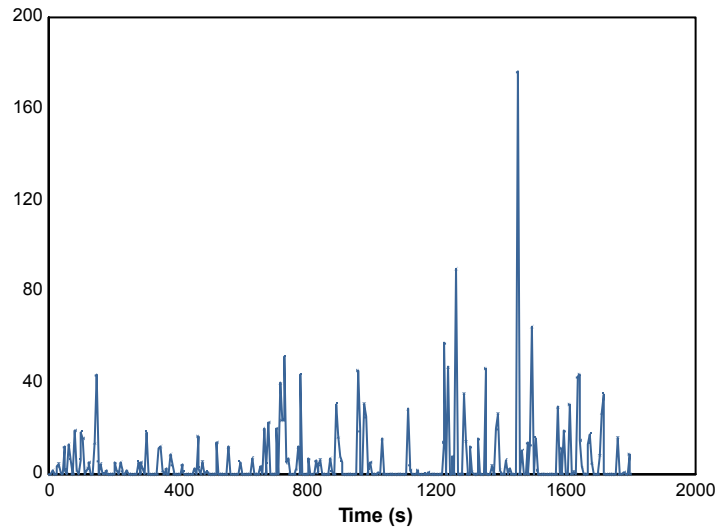
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**Smoke production rate ( $\text{m}^2/\text{s}$ )**



**Specific extinction area ( $\text{m}^2/\text{kg}$ )**



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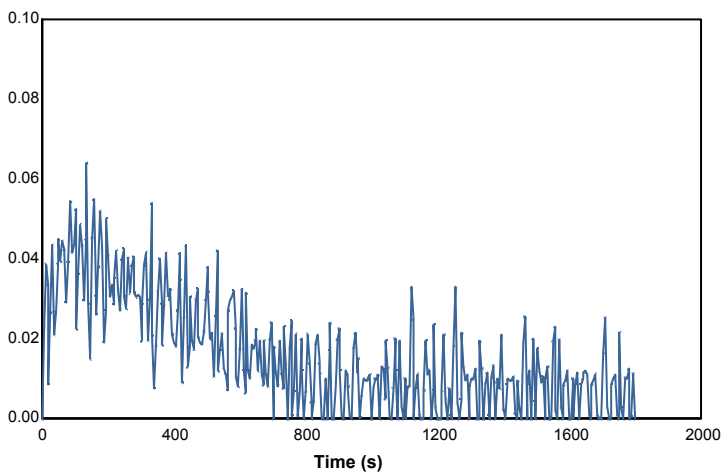
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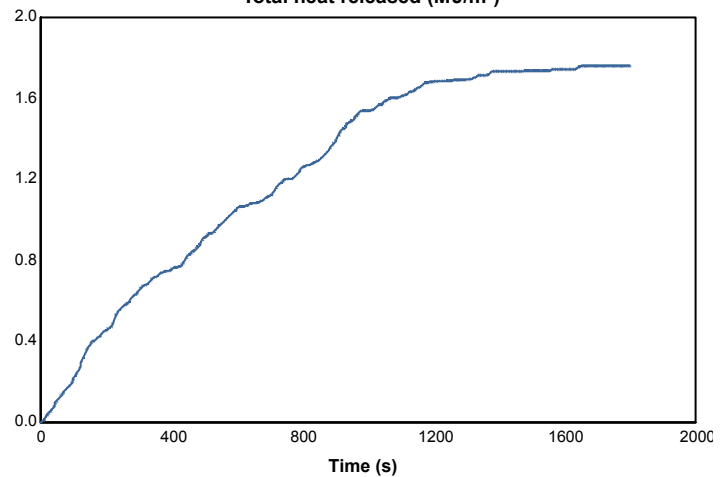
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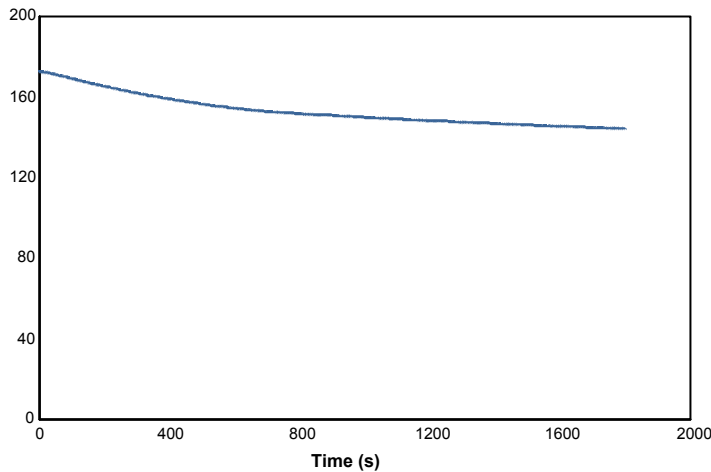
Mass loss rate (g/s)



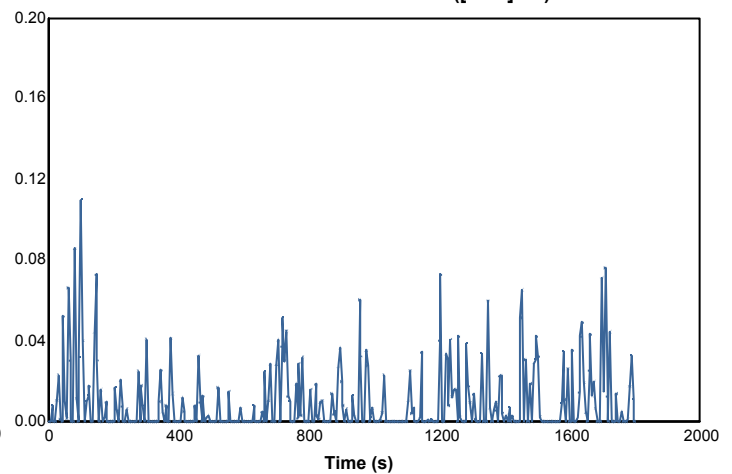
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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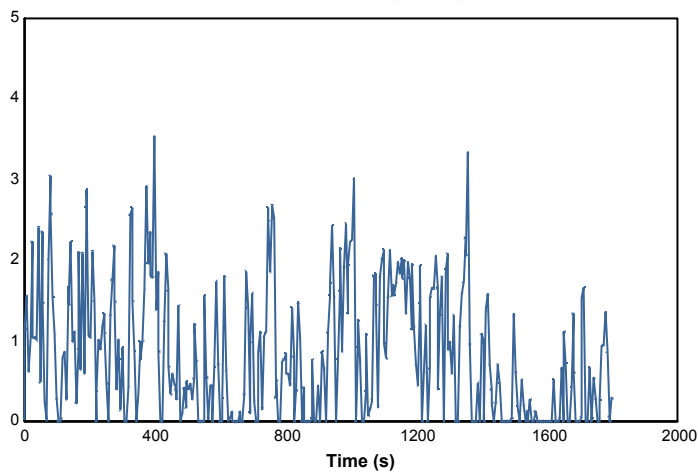
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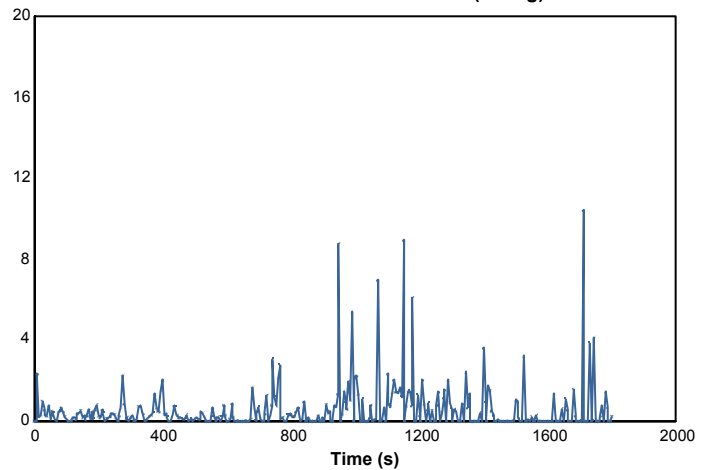
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**Specimen :** 3

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



Effective heat of combustion (MJ/kg)



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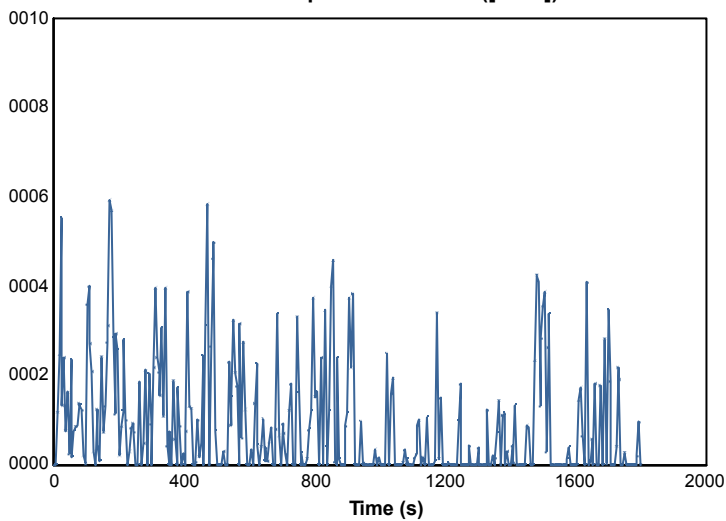
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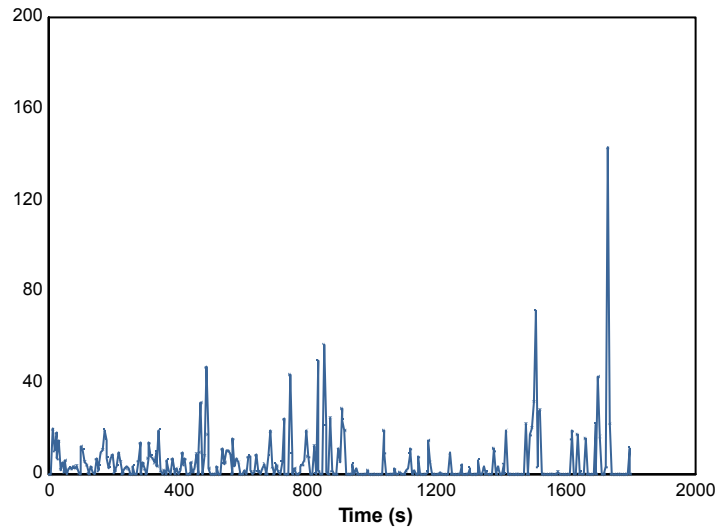
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**Smoke production rate ( $\text{m}^2/\text{s}$ )**



**Specific extinction area ( $\text{m}^2/\text{kg}$ )**



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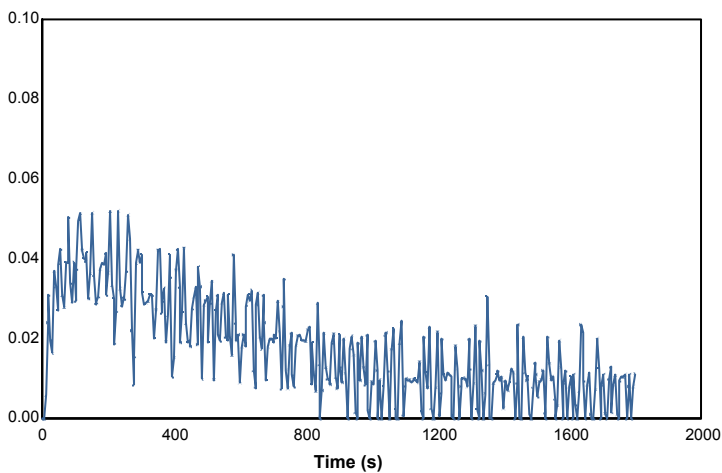
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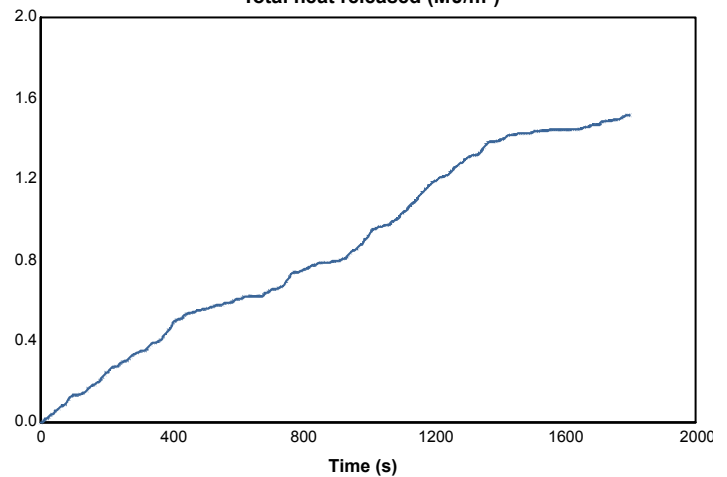
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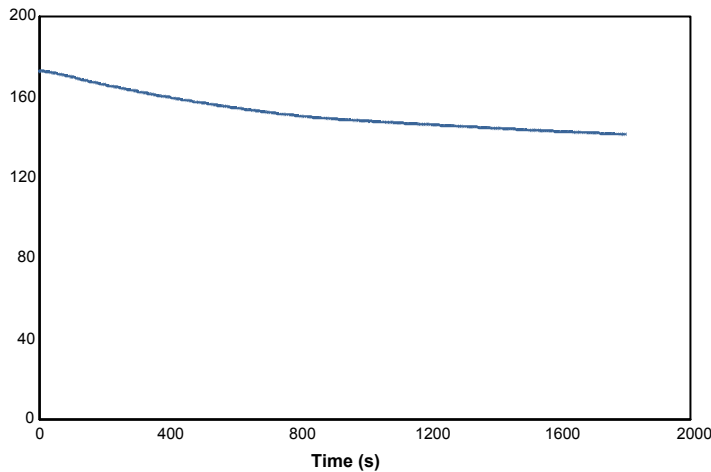
**Mass loss rate (g/s)**



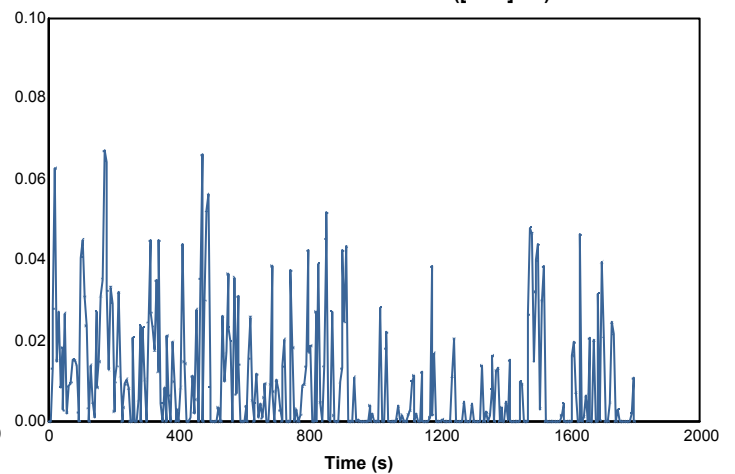
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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