

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 : Bailey Interiors
83-85 Boundary Road
Mortdale NSW 2223

Test Number : 21-003623
Issue Date : 28/07/2021
Print Date : 11/08/2021

Sponsor Product Clients Ref : "Open Cell-Direct Fix/ Cell Sound/ Open Cell/ Super Diamond/ Shadex/ Cell Sound Panel/ Eco Check"
Pre-Insulated plaster cast tiles
Composite
Nominal Mass per Unit Area/Density : Approx 16kg/m2
Nominal Thickness : Approx 34mm

Product Group Number Classification : 1
Group Number derived from : Sample A: Complete Tile
Average Specific Extinction Area : 3.2 m²/kg



Fiona McDonald
Testing Technologist

52983

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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 ²
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 ² /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
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

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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 ² .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/m². 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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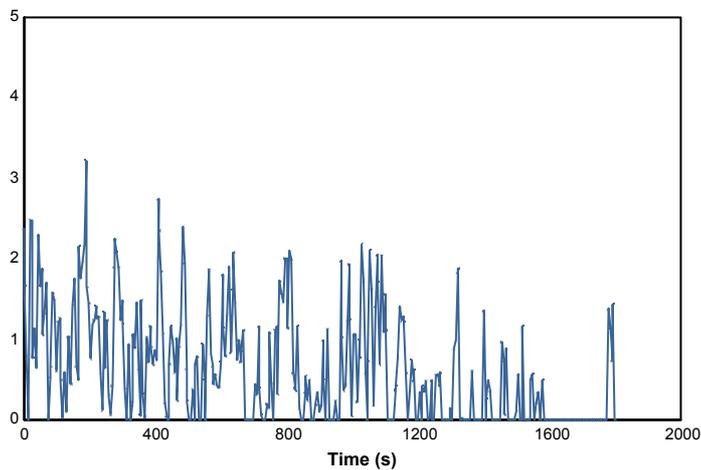
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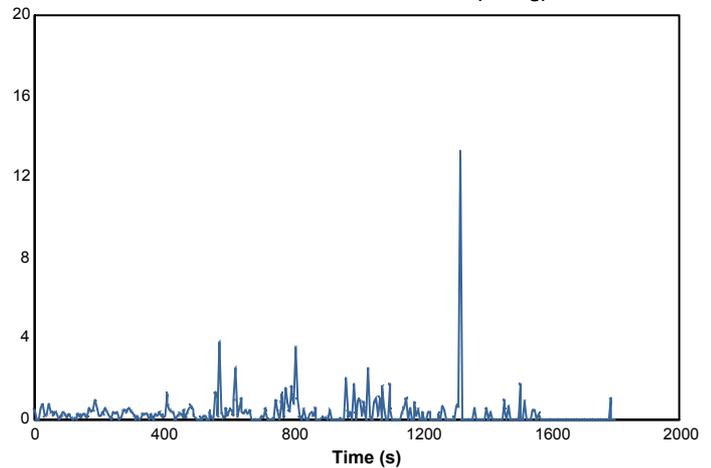
Replacement of Initial Report dated :09/06/2015

Specimen : 1

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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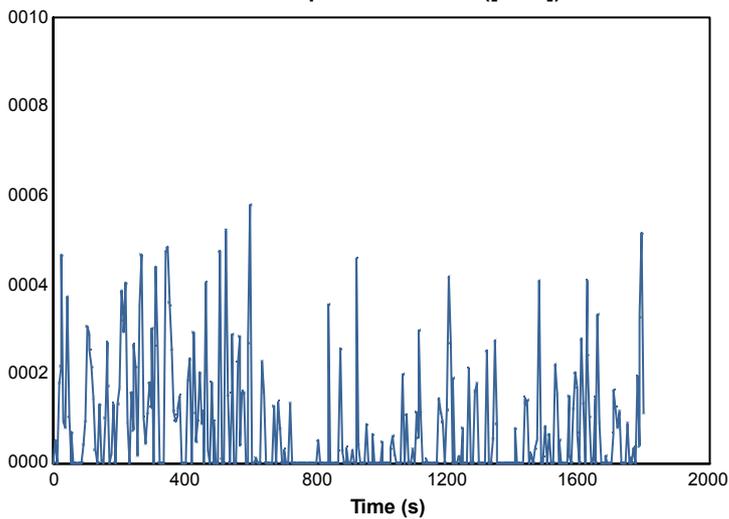
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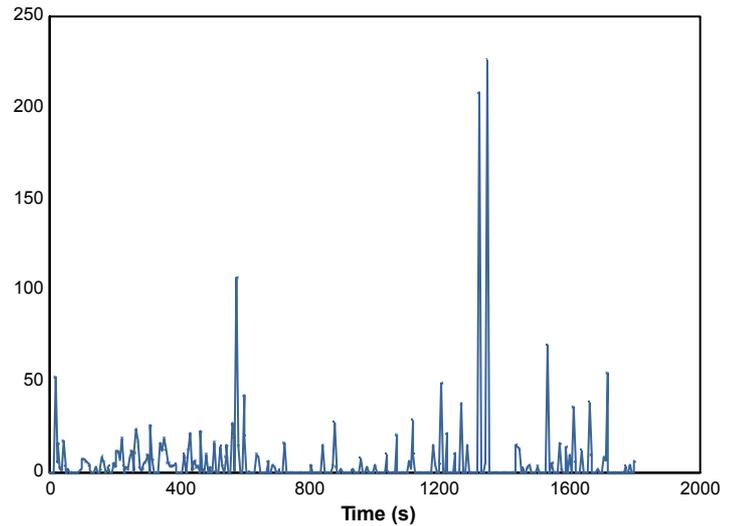
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Smoke production rate (m^2/s)



Specific extinction area (m^2/kg)



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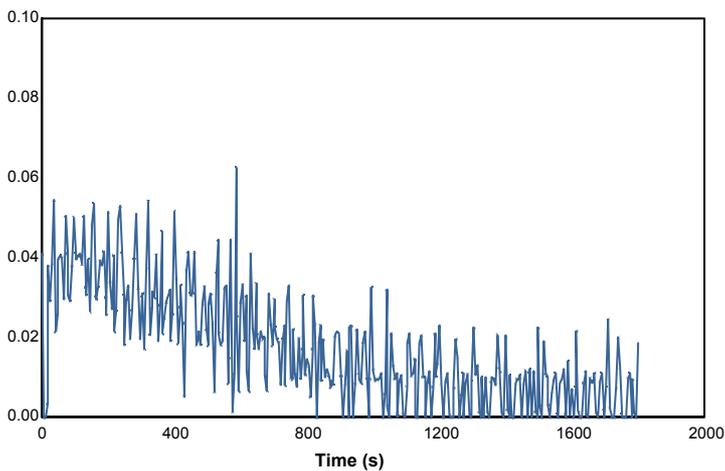
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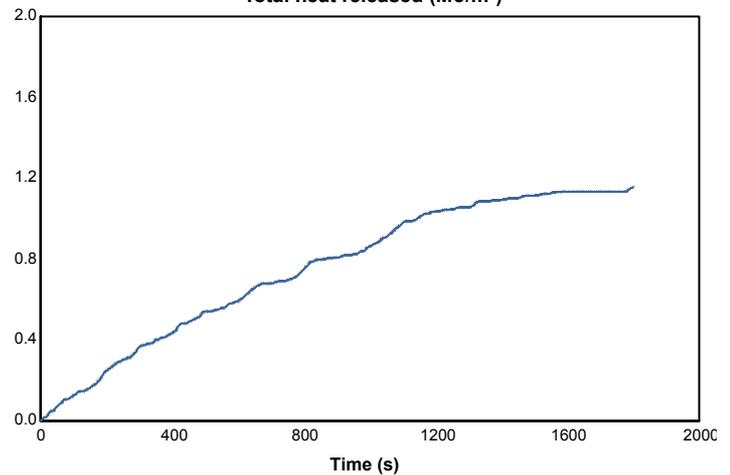
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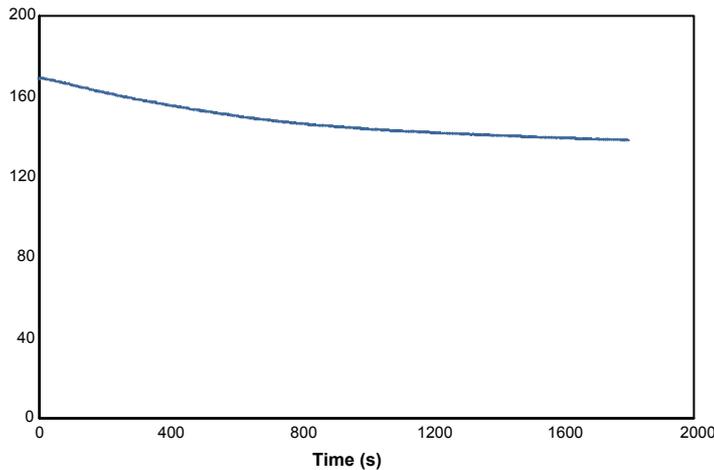
Mass loss rate (g/s)



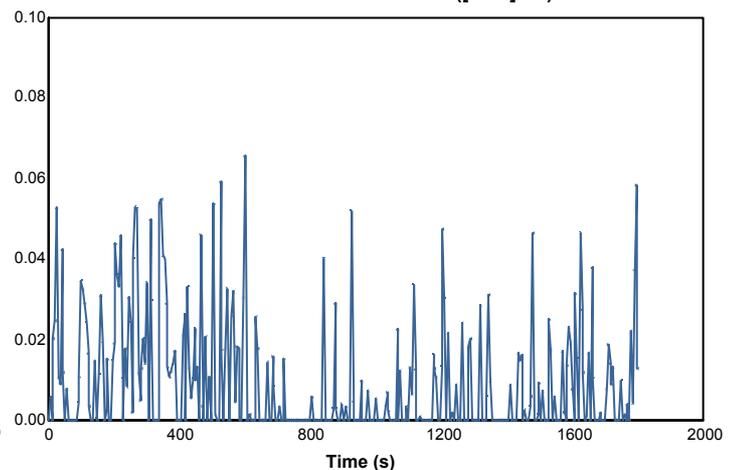
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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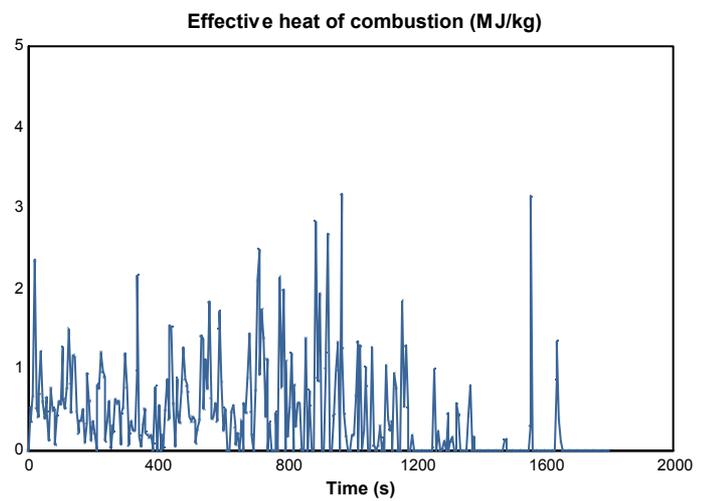
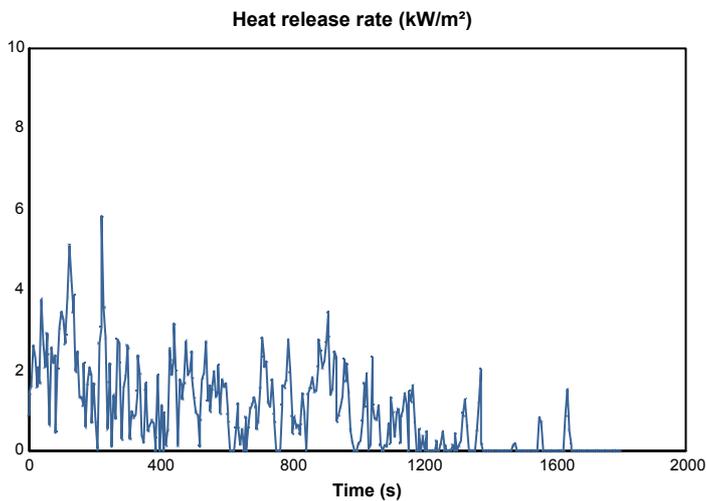
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Specimen : 2



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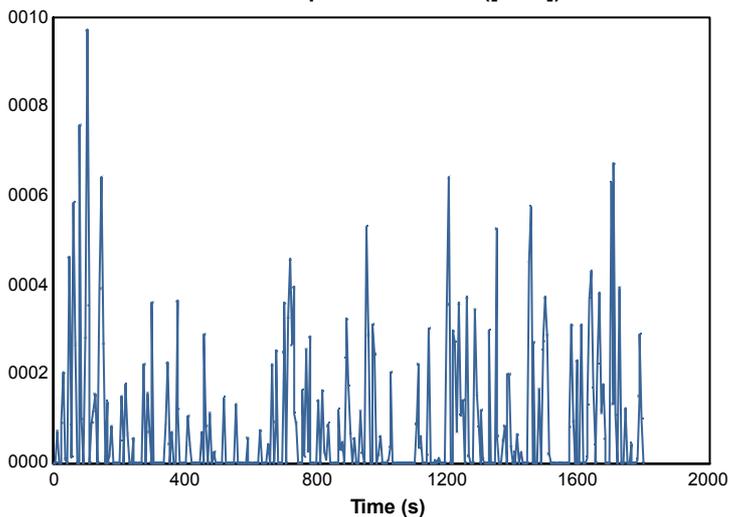
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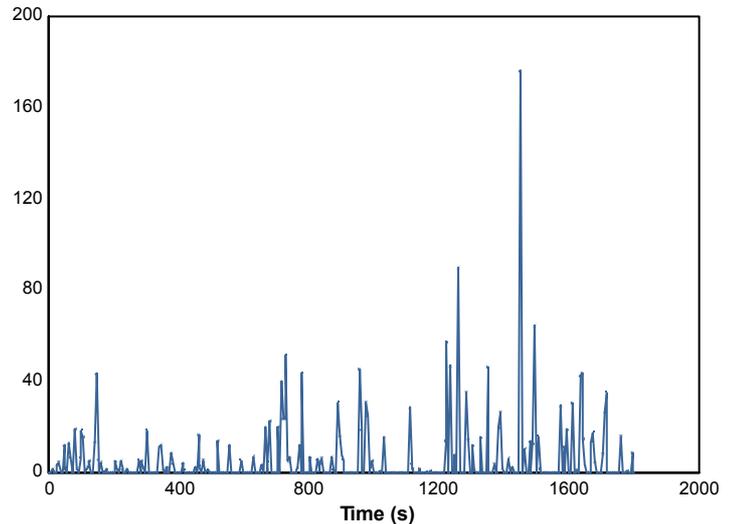
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Smoke production rate (m^2/s)



Specific extinction area (m^2/kg)



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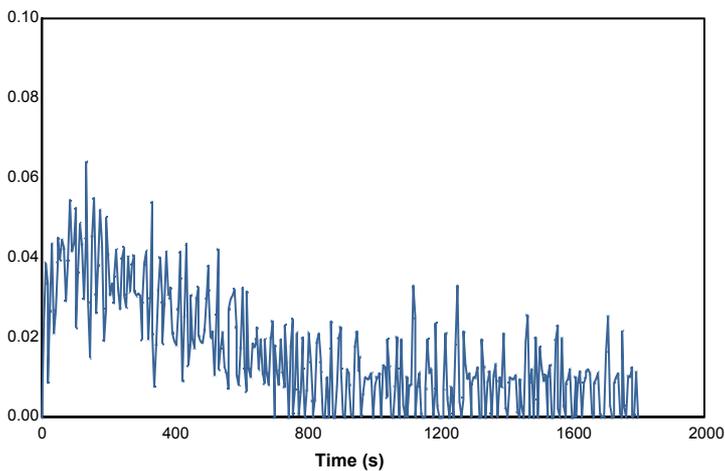
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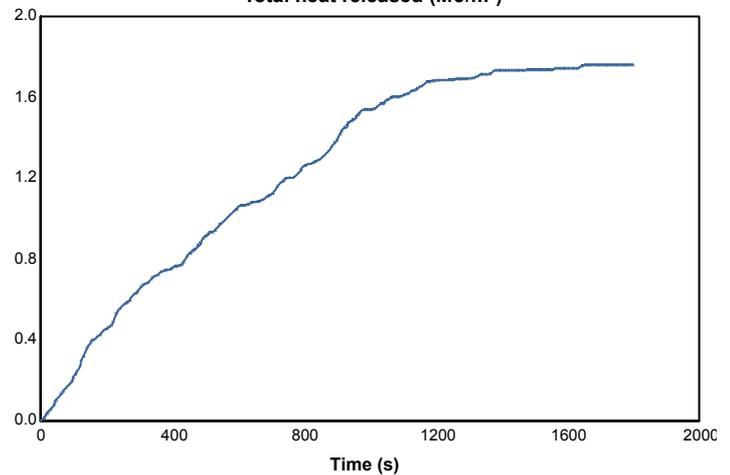
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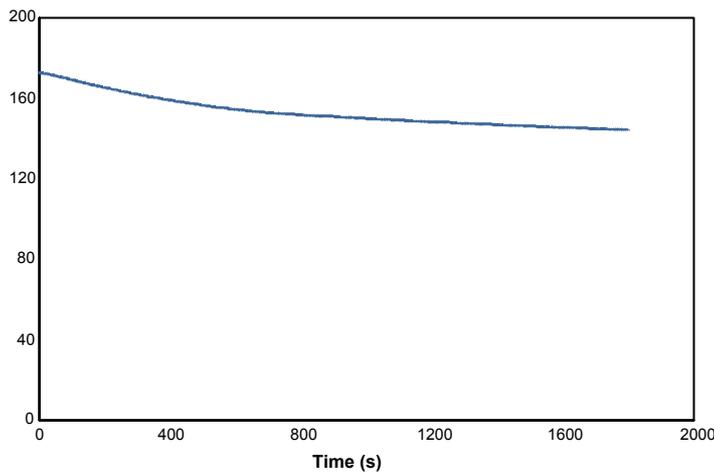
Mass loss rate (g/s)



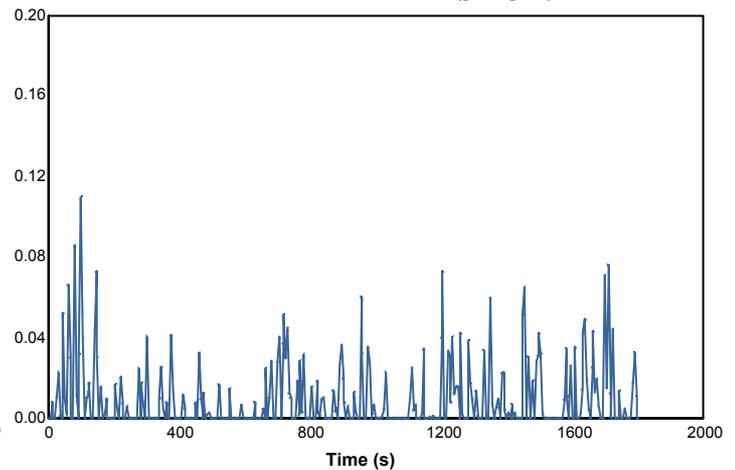
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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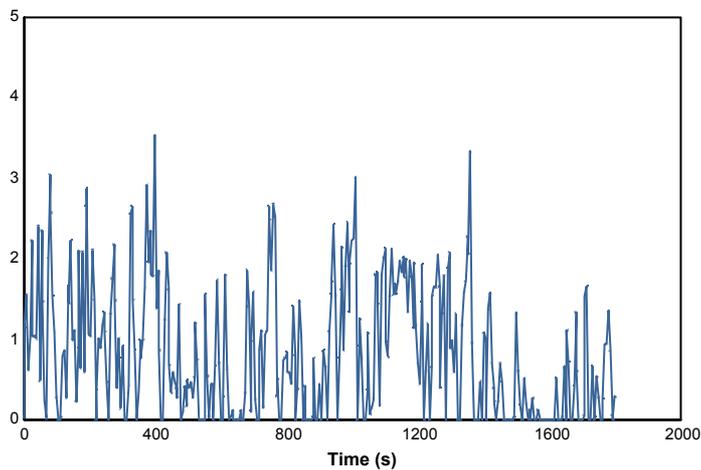
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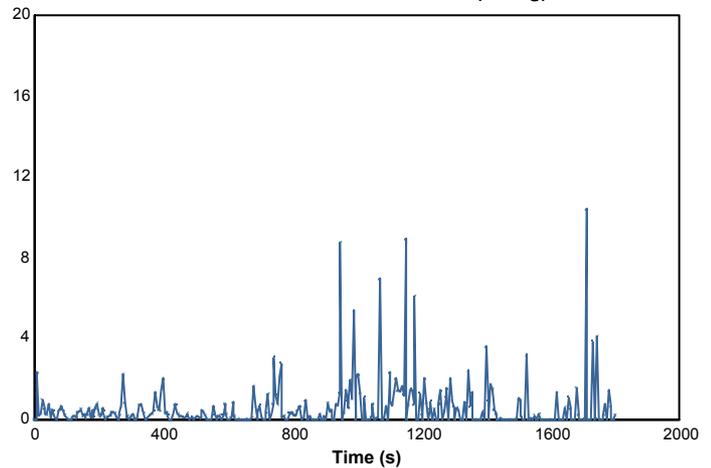
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Specimen : 3

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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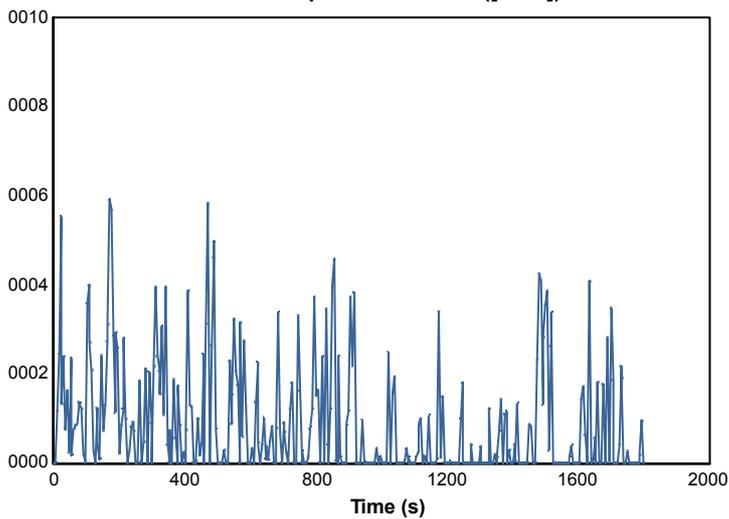
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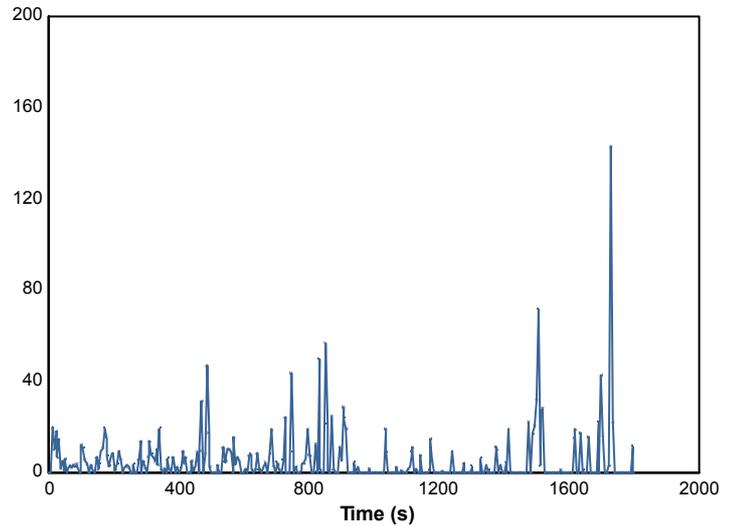
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Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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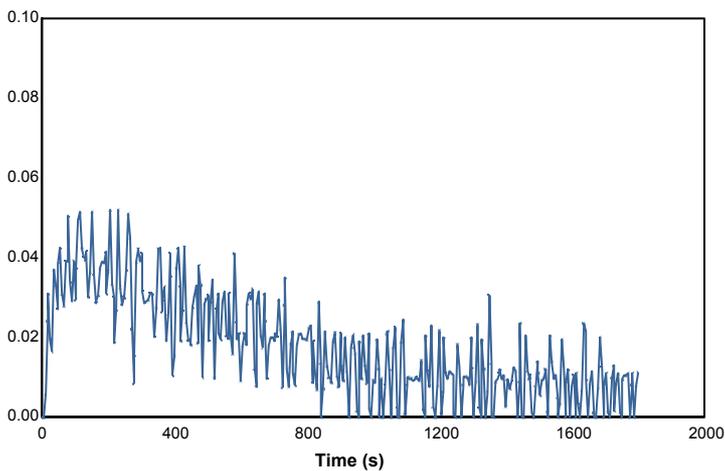
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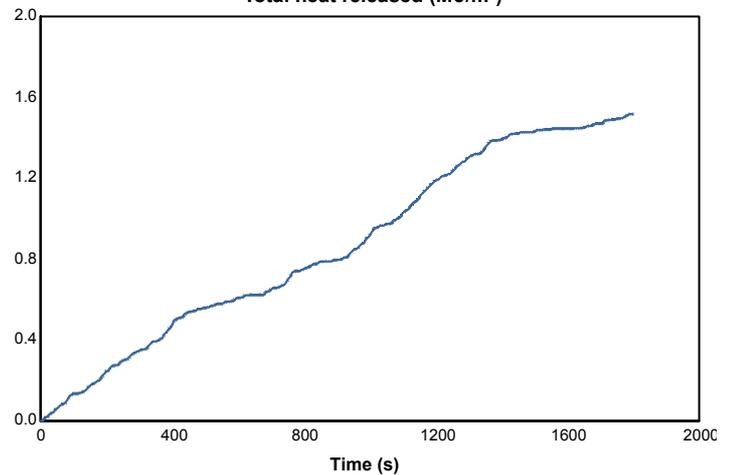
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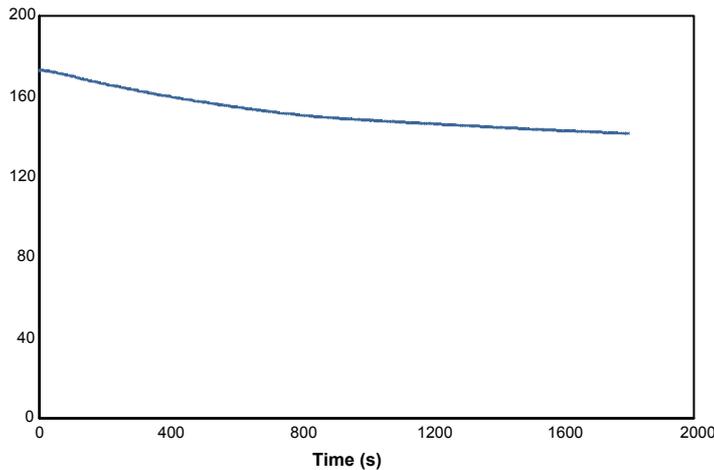
Mass loss rate (g/s)



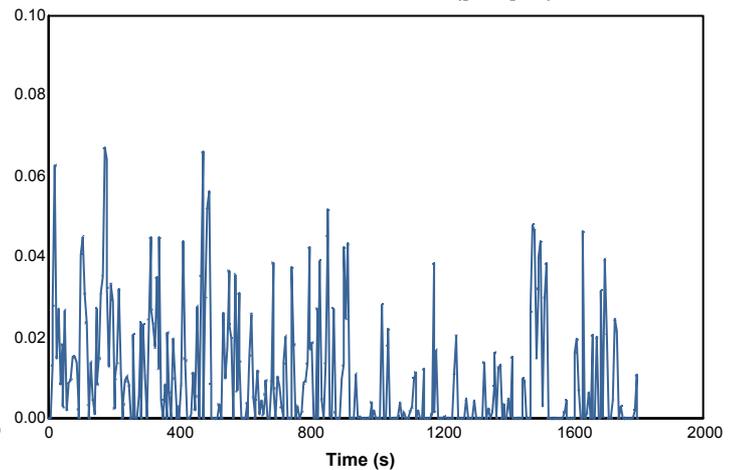
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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