

TEST REPORT

Client : Sketch Australia Pty Ltd
10/1050 Thompsons Road
Cranbourne West VIC 3977

Test Number : 23-003447
Issue Date : 11/09/2023
Print Date : 14/09/2023

Sample Description

Clients Ref : "Flexible Stone Veneer/Fire Rated
Stone Veneer sample
Sample A - Face
Colour : Wall Covering
End Use : Wall Covering
Nominal Composition : Top Layer: 100% Metaphoric Stone
Nominal Thickness : 2-3mm



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

Date Tested 08-09-2023
Operator Test Operator 9
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	89.2	93.5	77.4	86.7	kW/m ²
Average Specific extinction area	301.8	353.1	324.2	326.4	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	68	63	71	67	sec
Test duration	742	711	865	773	sec
Peak heat release after ignition	203.1	194.6	195.5	197.7	kW/m ²
Average heat at 60 s	117.1	110.3	151.5	126.3	kW/m ²
Average heat at 180 s	164.6	160.0	164.6	163.1	kW/m ²
Average heat at 300 s	152.2	157.4	146.0	151.9	kW/m ²
Total heat released	60.2	60.8	61.2	60.7	MJ/m ²
Average effective heat of combustion	14.4	14.8	14.8	14.7	MJ/kg
Initial thickness	12	12	12	12.0	mm
Initial mass	92.3	91.5	91.8	91.9	g
Mass remaining	58.5	58.3	58.2	58.3	g
Mass percentage pyrolysed	36.6	36.3	36.6	36.5	%

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Mass loss	4.2	4.1	4.1	4.1	kg/m ²
Average rate of mass loss	6.2	6.3	5.2	5.9	g/m ² .s
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

Samples were adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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.

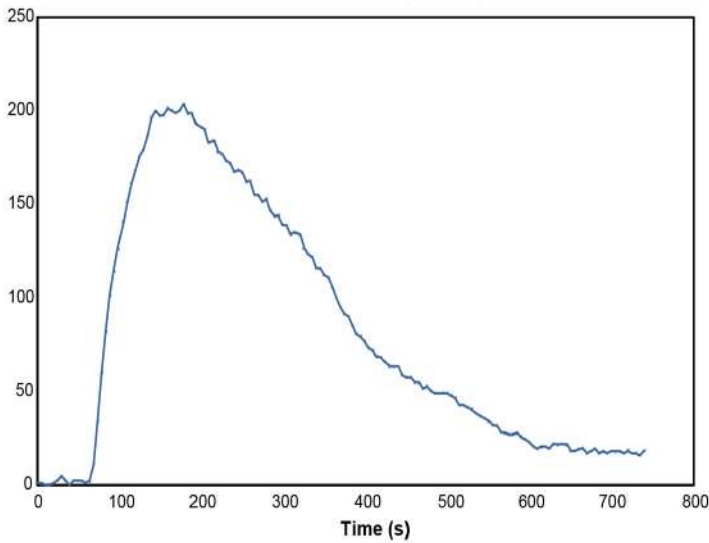
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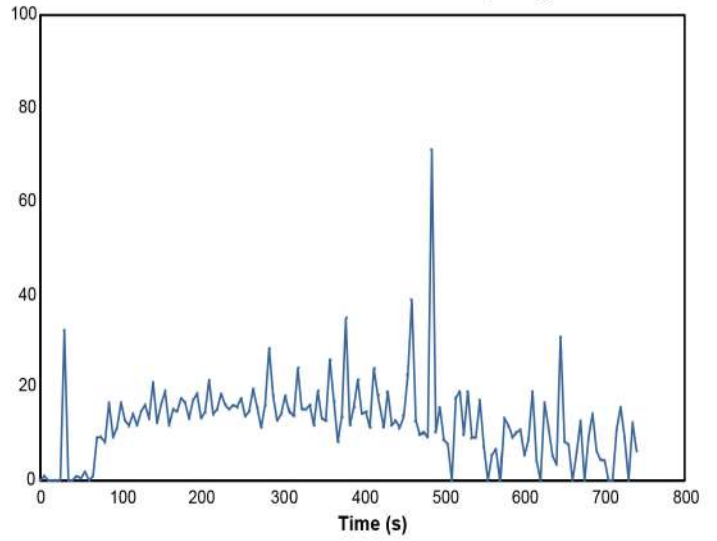
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Specimen : 1

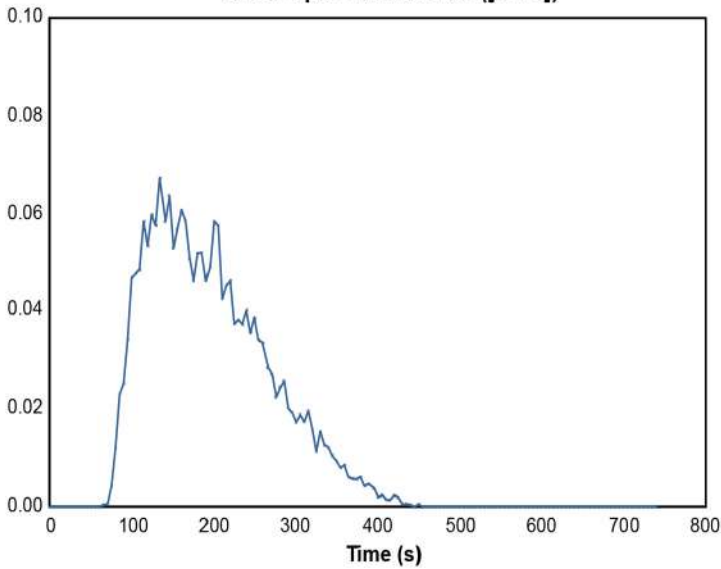
Heat release rate (kW/m²)



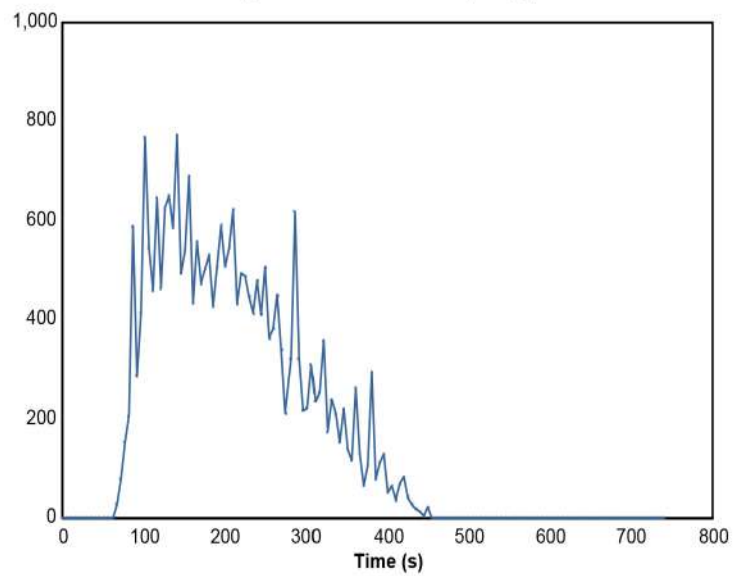
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)

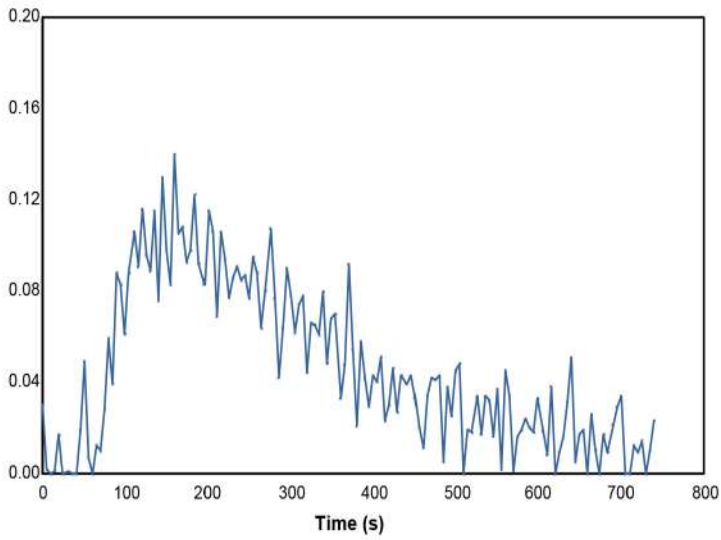


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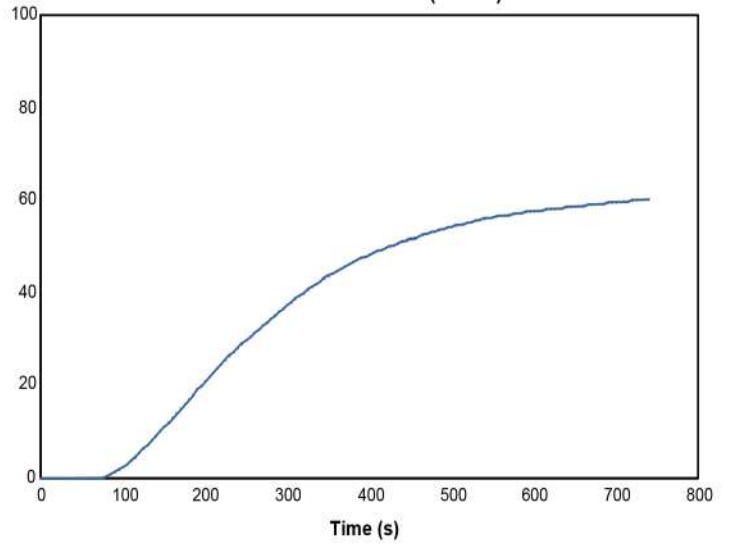
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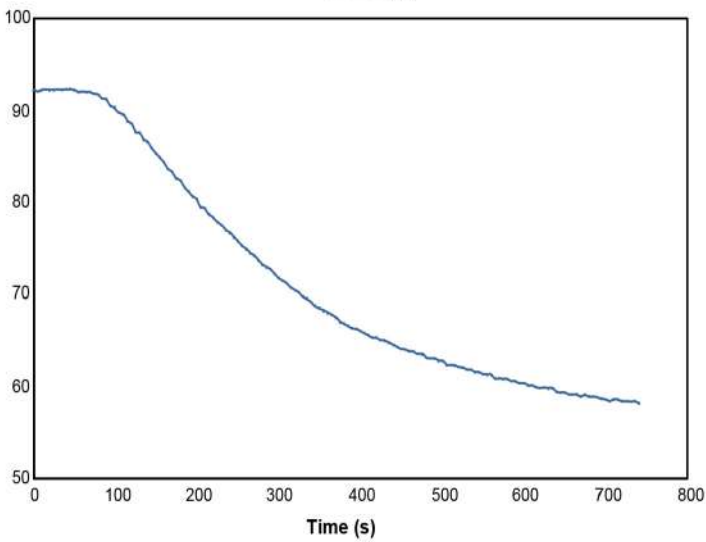
Mass loss rate (g/s)



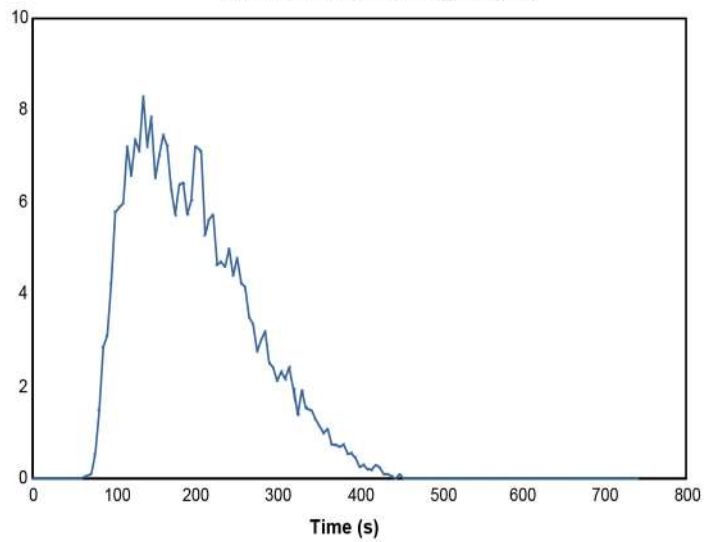
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m³/s)/m²)



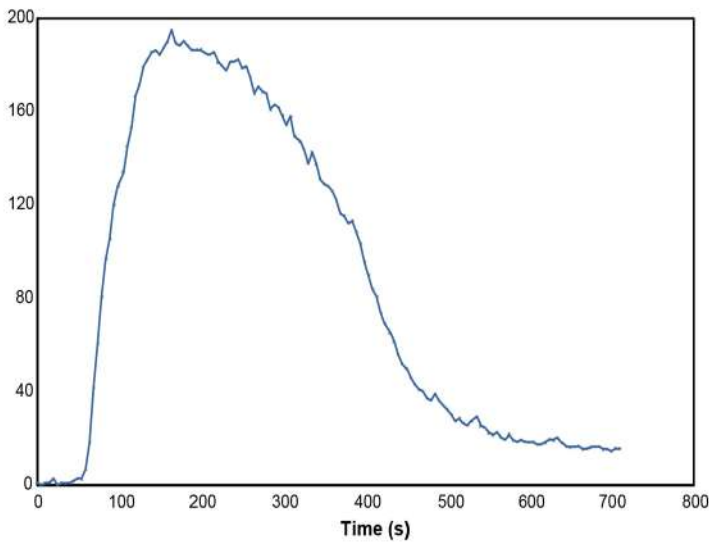
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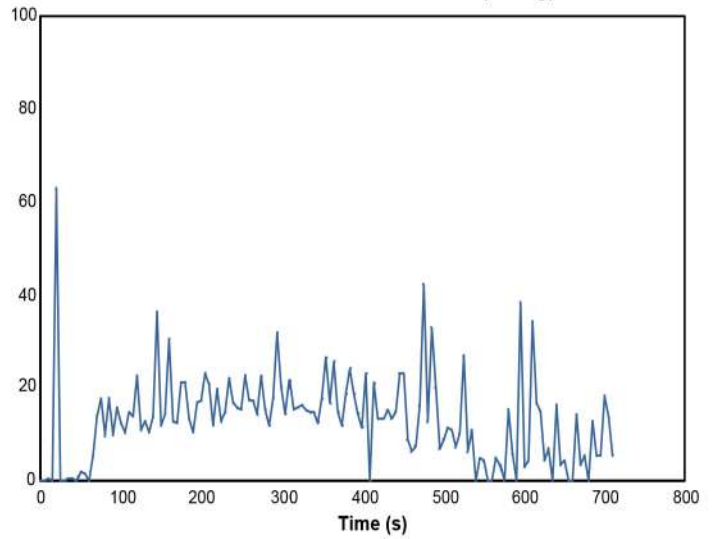
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Specimen : 2

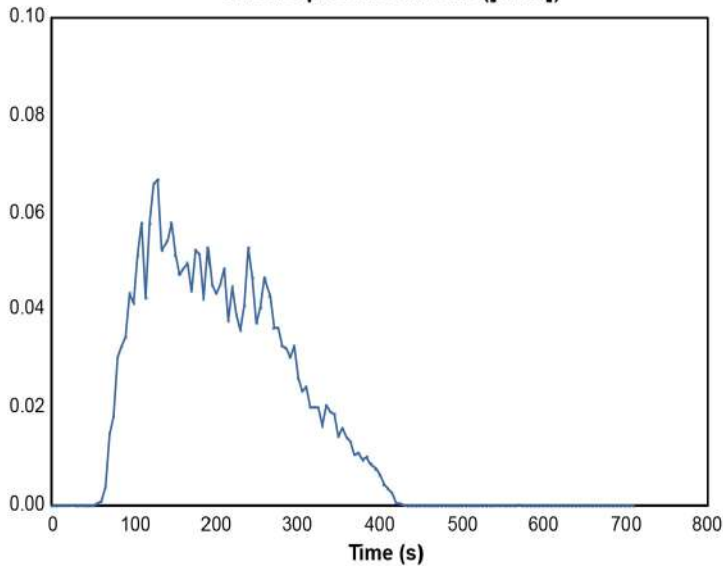
Heat release rate (kW/m²)



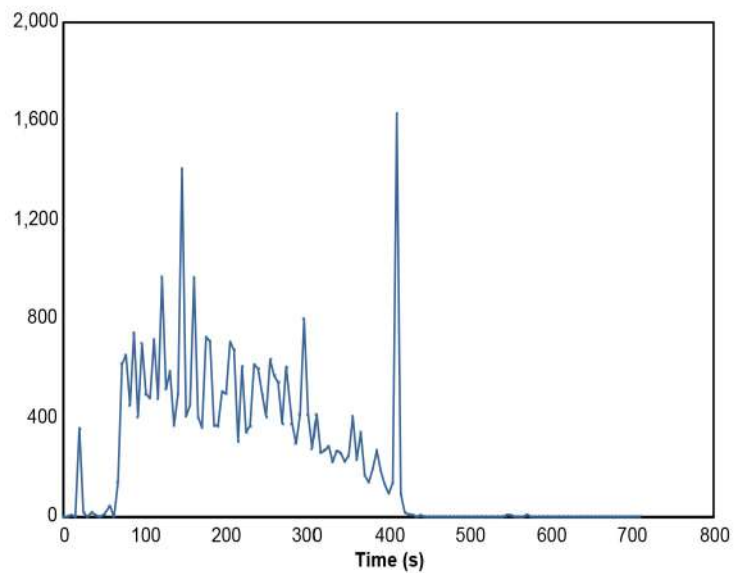
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)

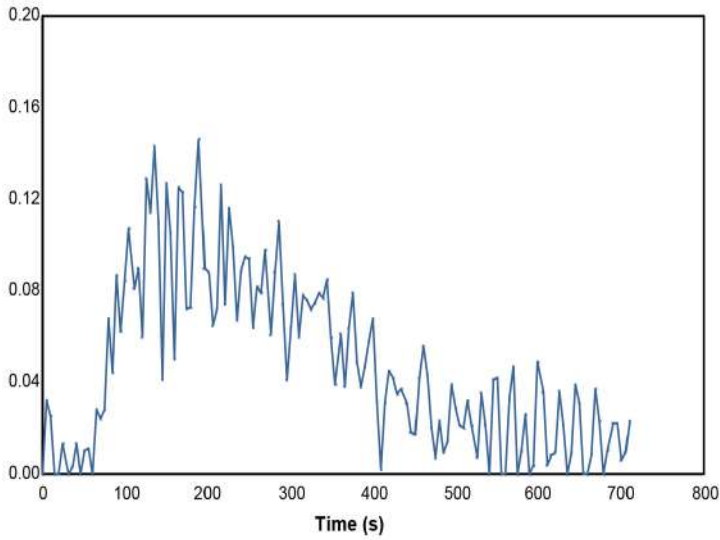


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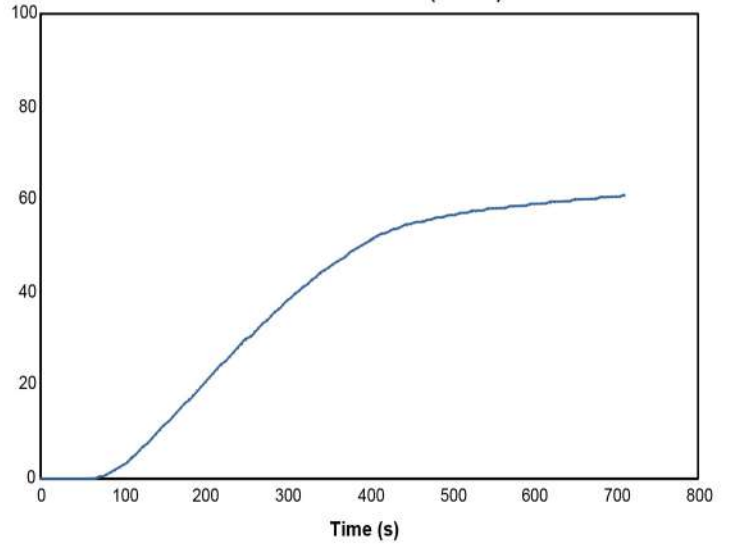
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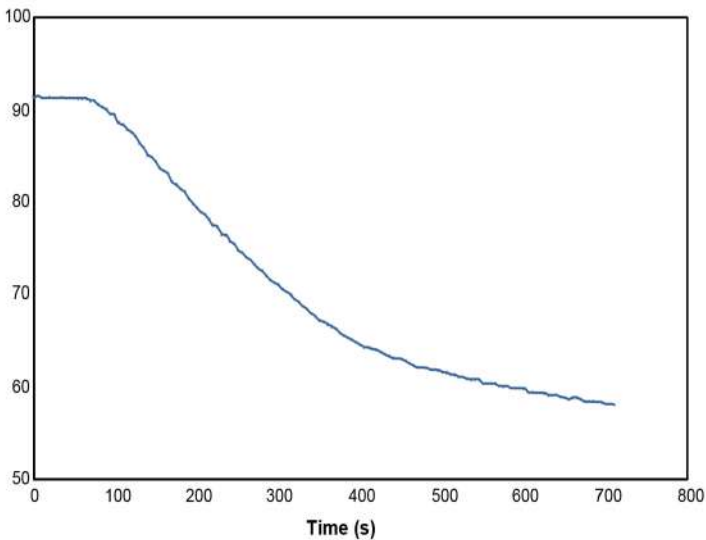
Mass loss rate (g/s)



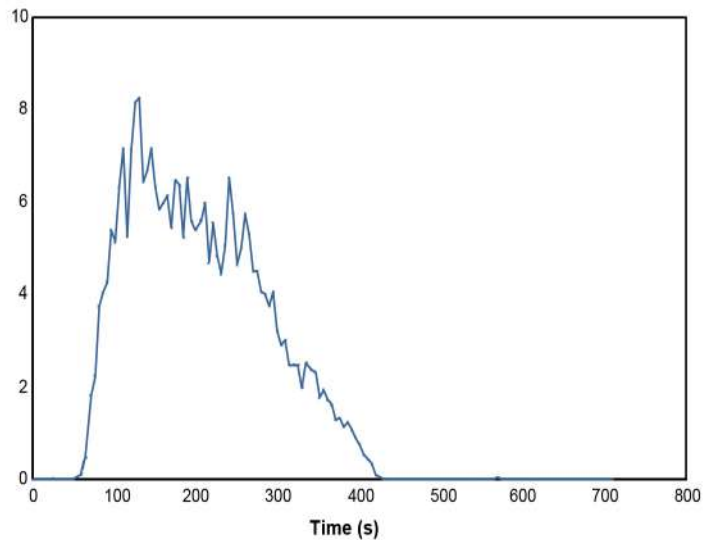
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m²/s)/m²)



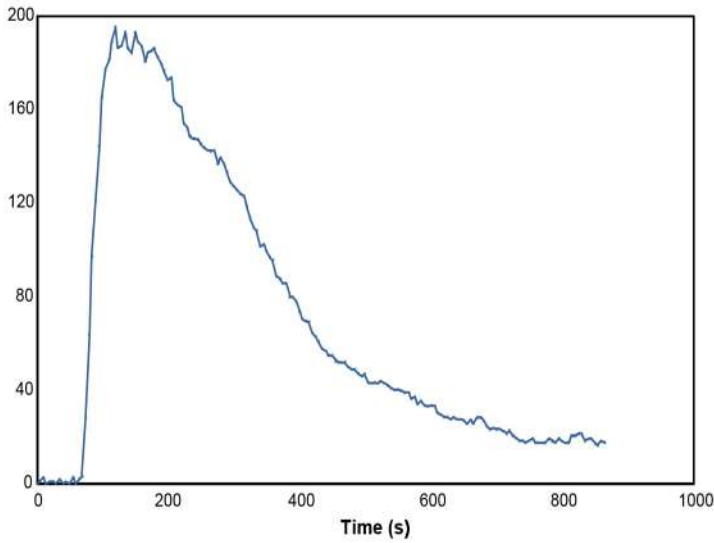
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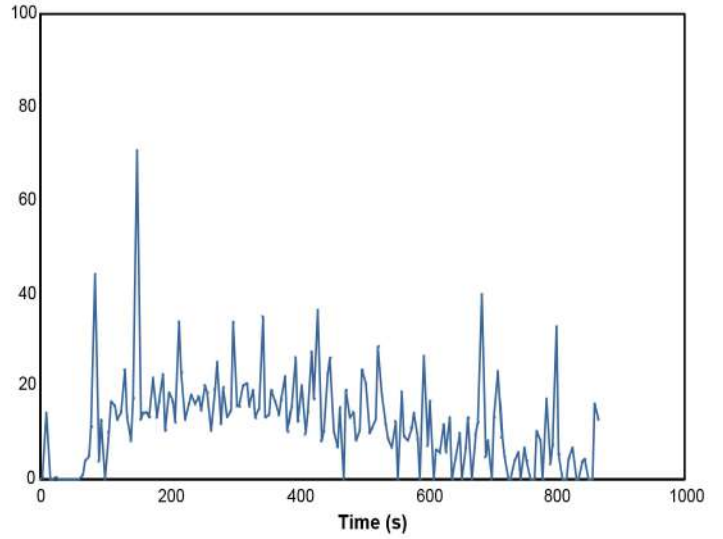
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Specimen : 3

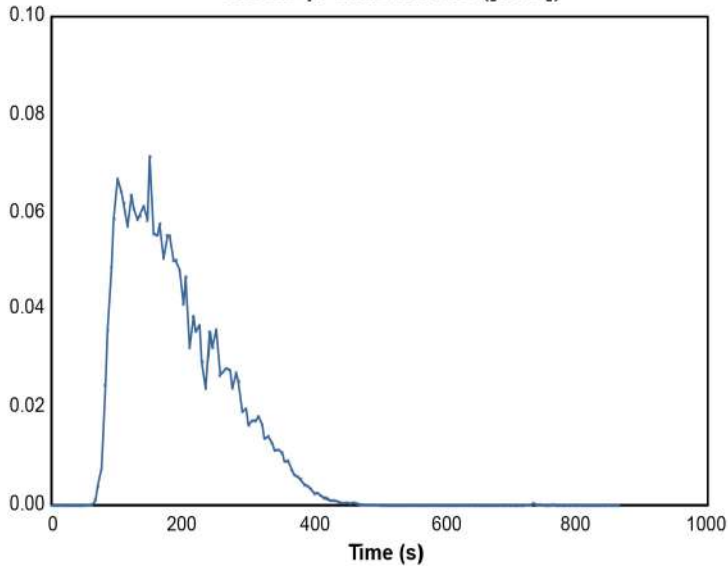
Heat release rate (kW/m²)



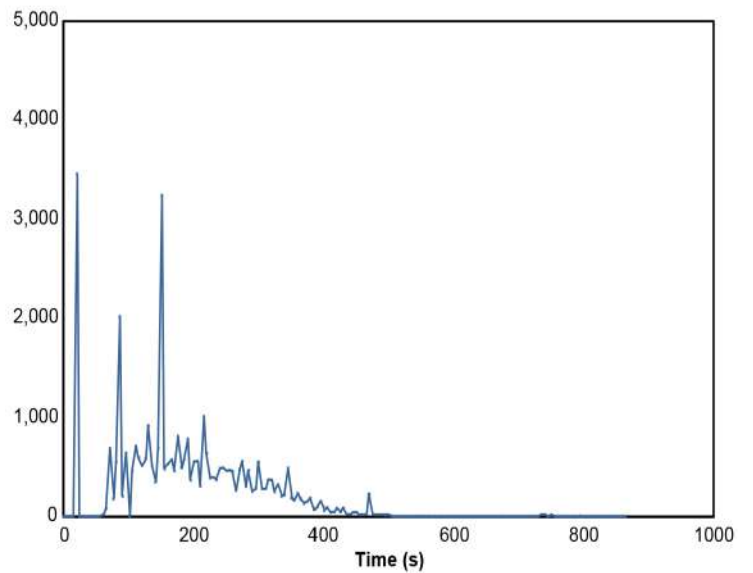
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)

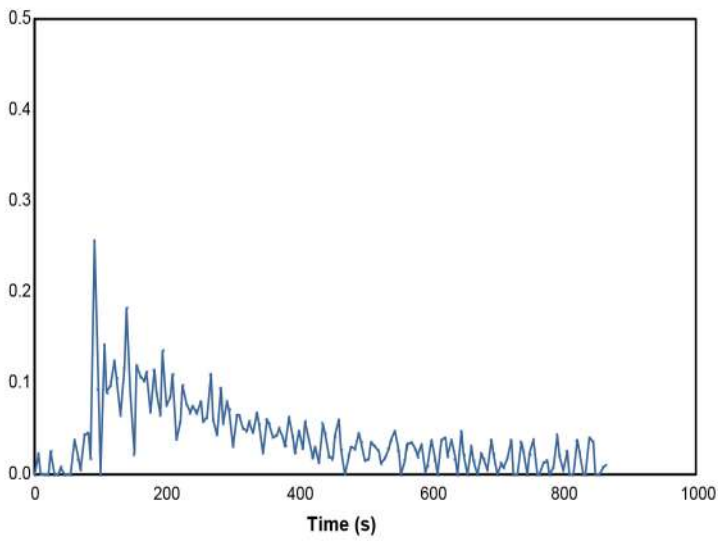


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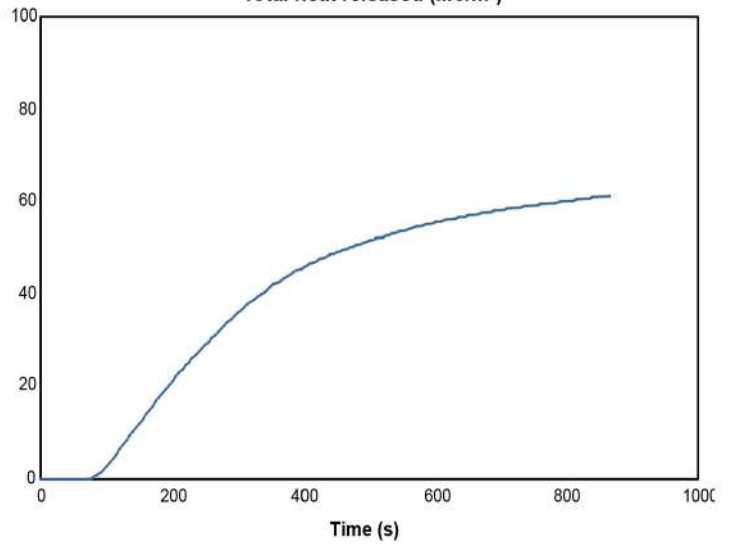
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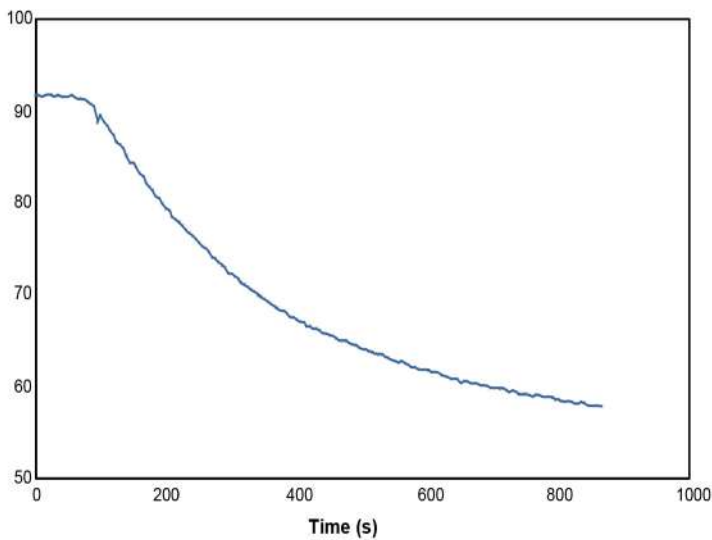
Mass loss rate (g/s)



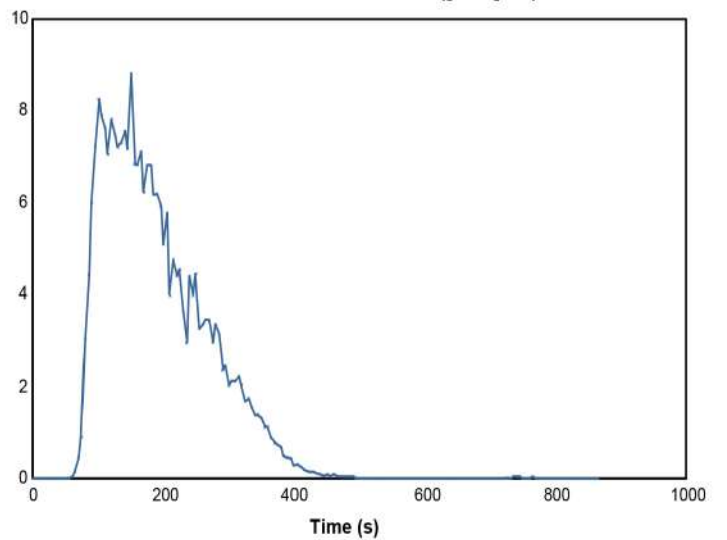
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m²/s)/m²)



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Sample Description

Clients Ref : "Flexible Stone Veneer/Fire Rated

Stone Veneer sample

Sample B - Back

Colour : Wall Covering

End Use : Wall Covering

Nominal Composition : Backfills is fibreglass, held together by resin

Nominal Thickness : 2-3mm



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

Date Tested 11-09-2023
Operator Test Operator 9
Face Tested BACK

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	92.7	79.4	92.8	88.3	kW/m ²
Average Specific extinction area	359.6	334.3	350.1	348.0	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	53	45	50	49	sec
Test duration	681	735	748	721	sec
Peak heat release after ignition	233.6	251.9	266.1	250.5	kW/m ²
Average heat at 60 s	155.7	133.5	145.8	145.0	kW/m ²
Average heat at 180 s	191.0	185.5	203.0	193.2	kW/m ²
Average heat at 300 s	158.9	150.4	170.6	160.0	kW/m ²
Total heat released	58.4	54.8	64.9	59.3	MJ/m ²
Average effective heat of combustion	14.4	13.6	14.7	14.2	MJ/kg
Initial thickness	12	12	12	12.0	mm
Initial mass	92.4	89.6	92.6	91.5	g
Mass remaining	59.3	57.0	56.8	57.7	g
Mass percentage pyrolysed	35.8	36.4	38.7	37.0	%

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Mass loss	4.1	4.0	4.4	4.2	kg/m ²
Average rate of mass loss	6.5	5.8	6.3	6.2	g/m ² .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.

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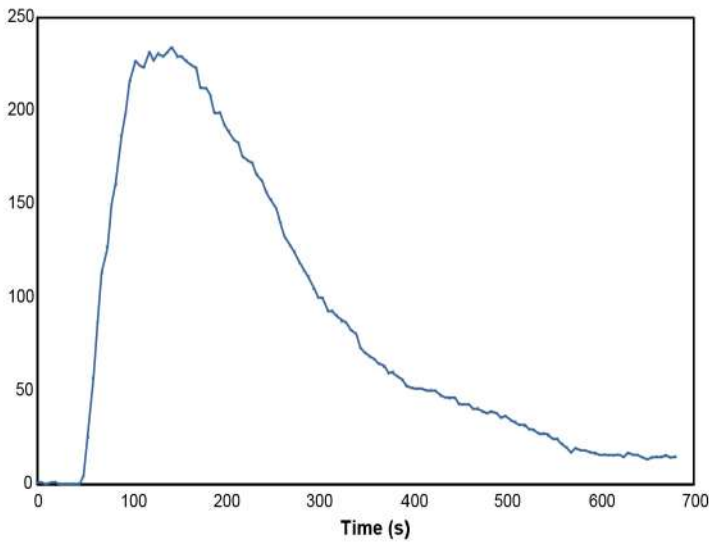
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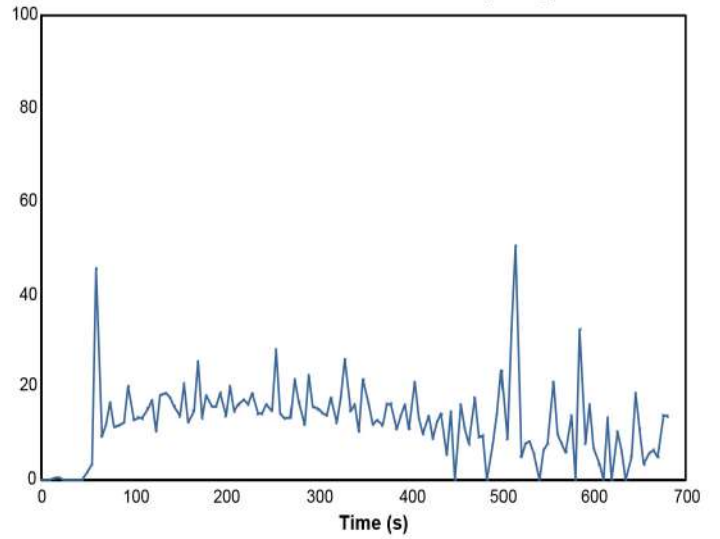
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Specimen : 1

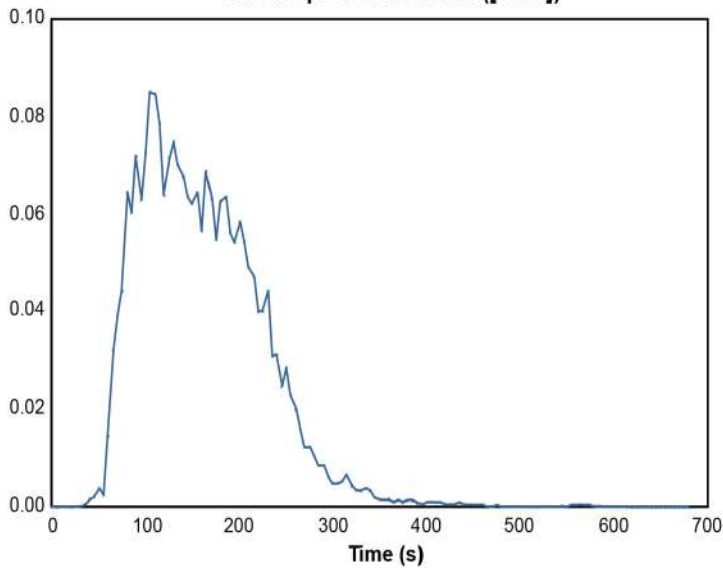
Heat release rate (kW/m²)



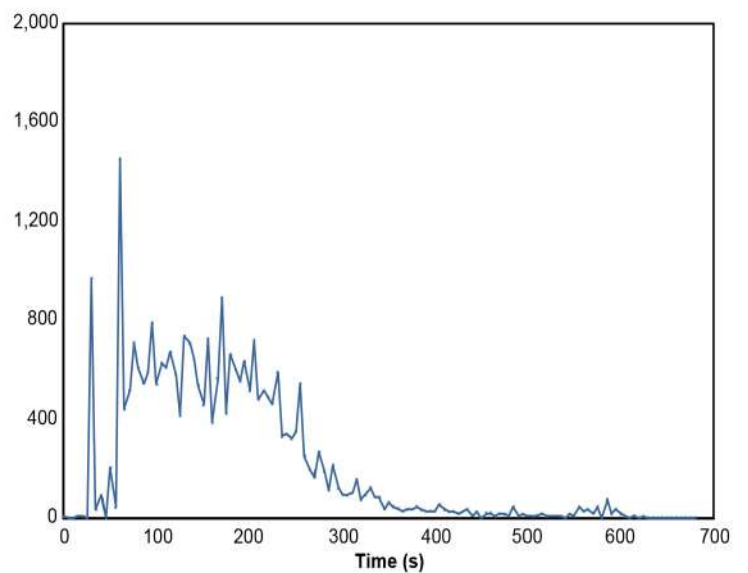
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)

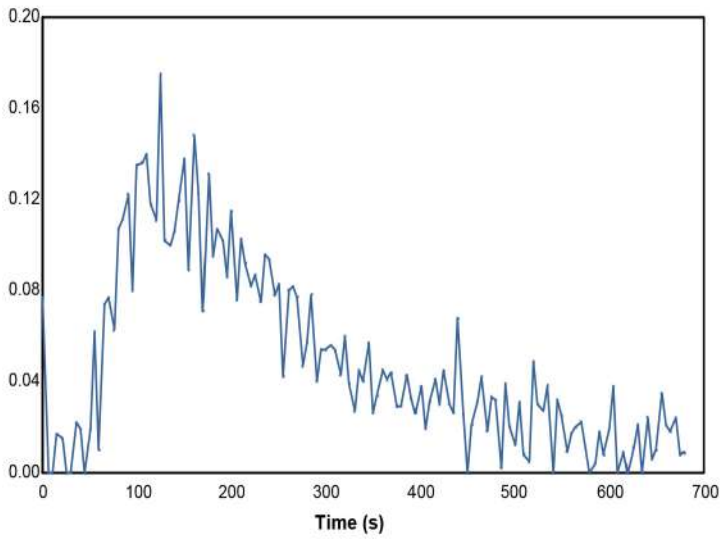


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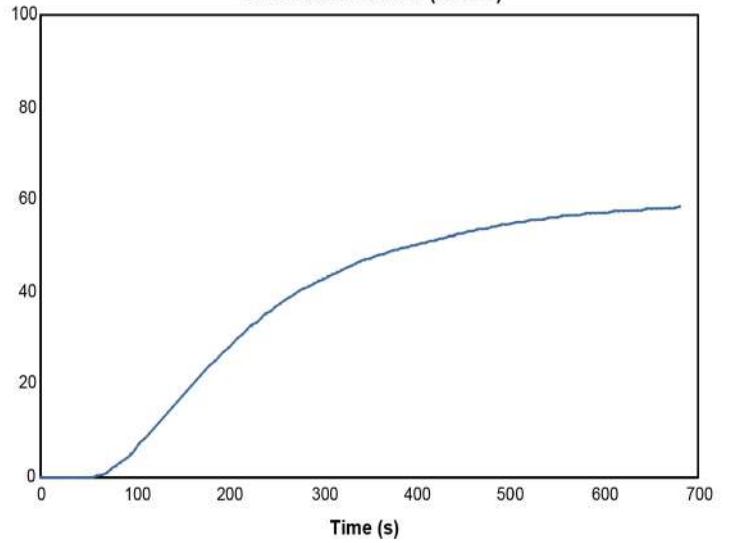
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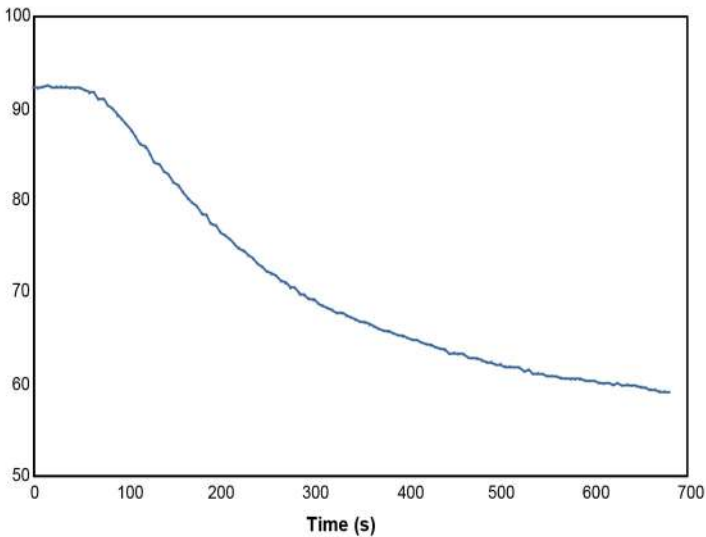
Mass loss rate (g/s)



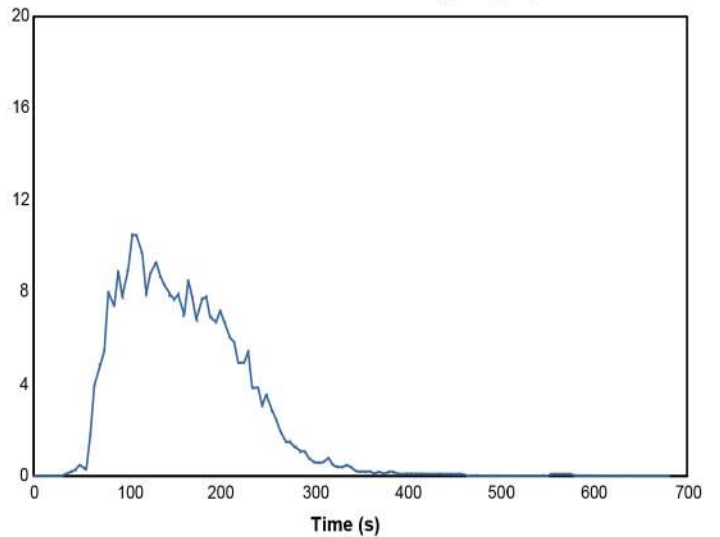
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m²/s)/m²)



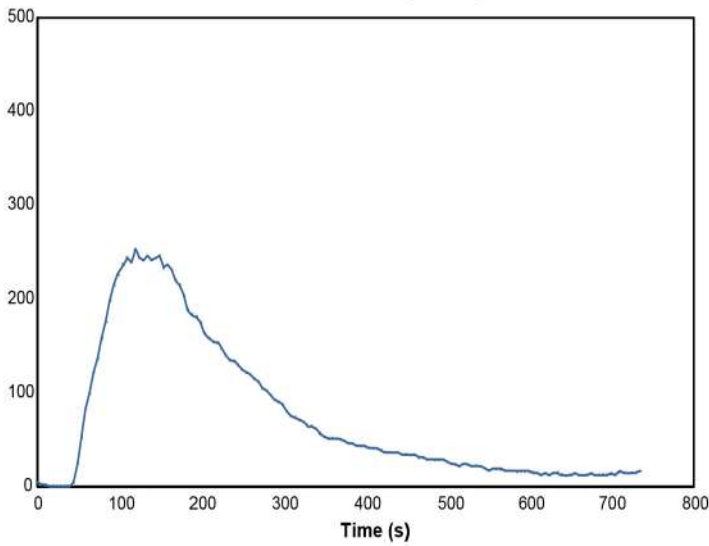
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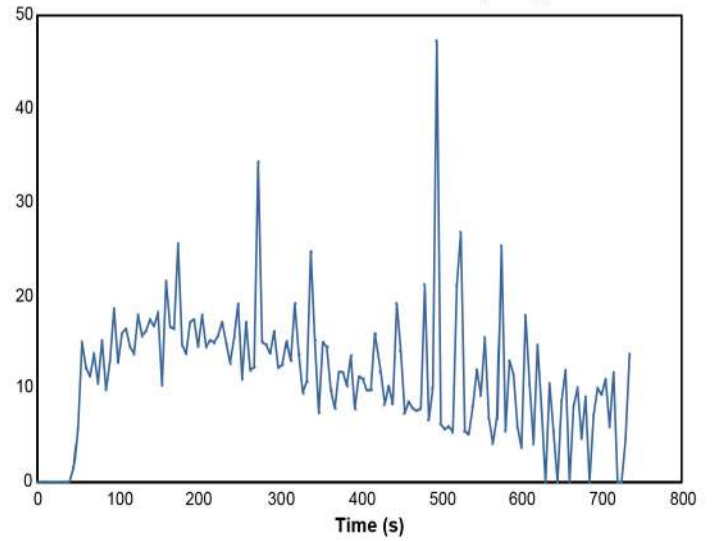
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Specimen : 2

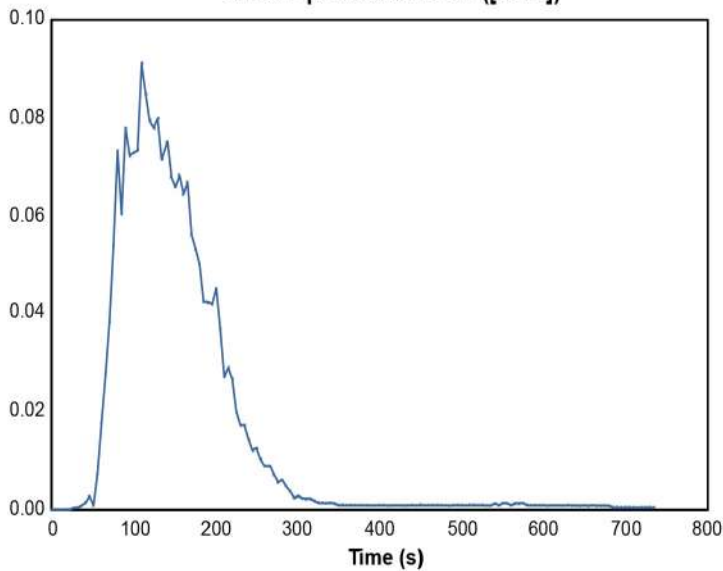
Heat release rate (kW/m²)



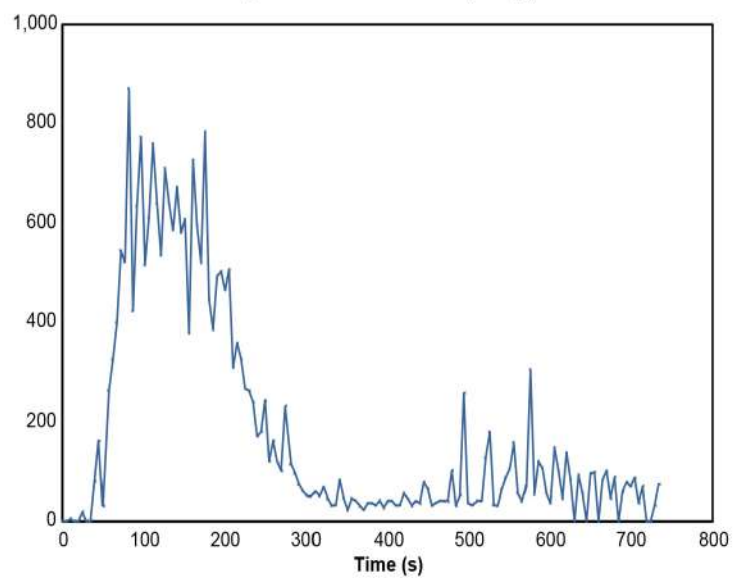
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)

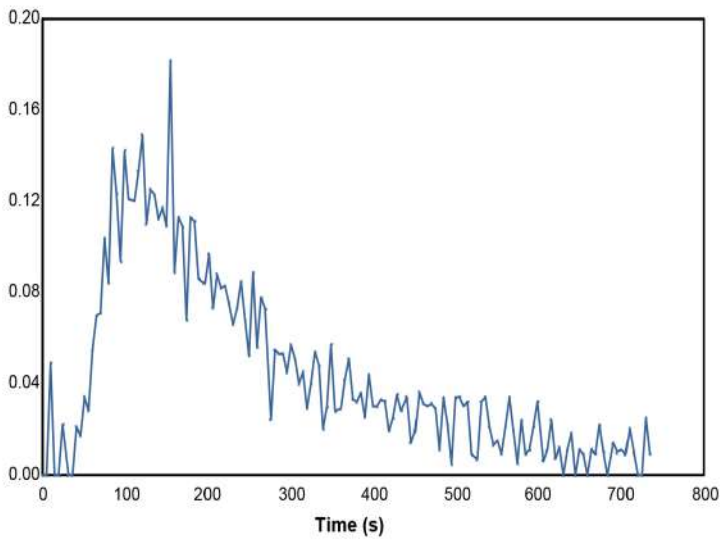


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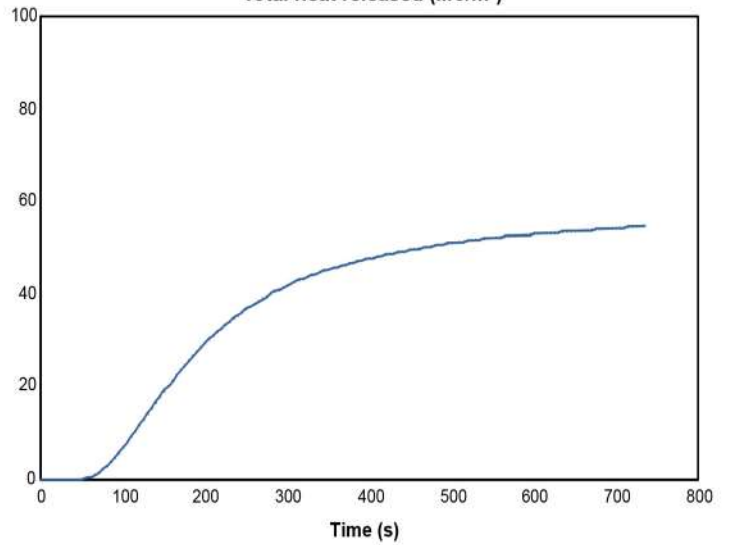
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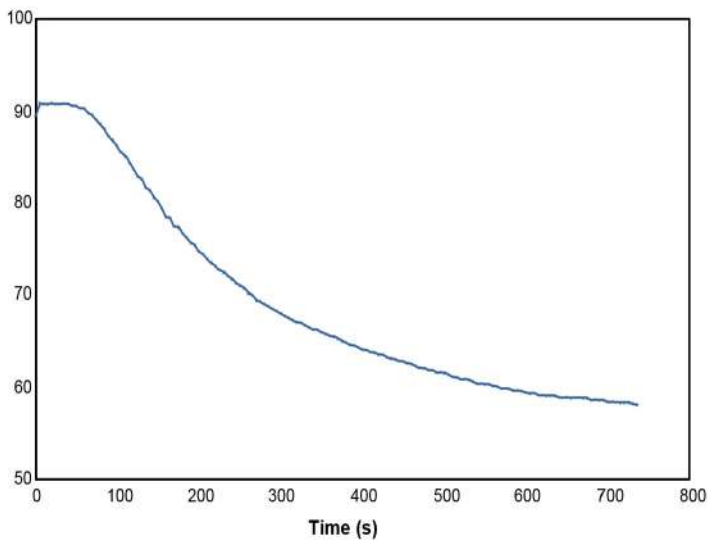
Mass loss rate (g/s)



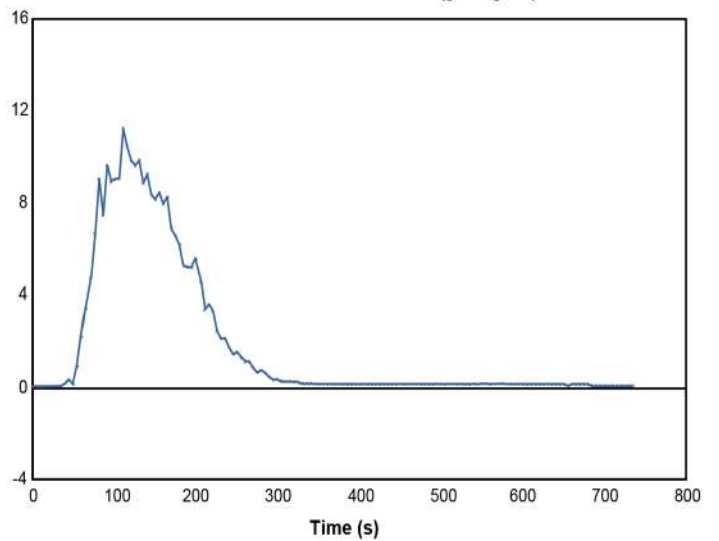
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m²/s)/m²)



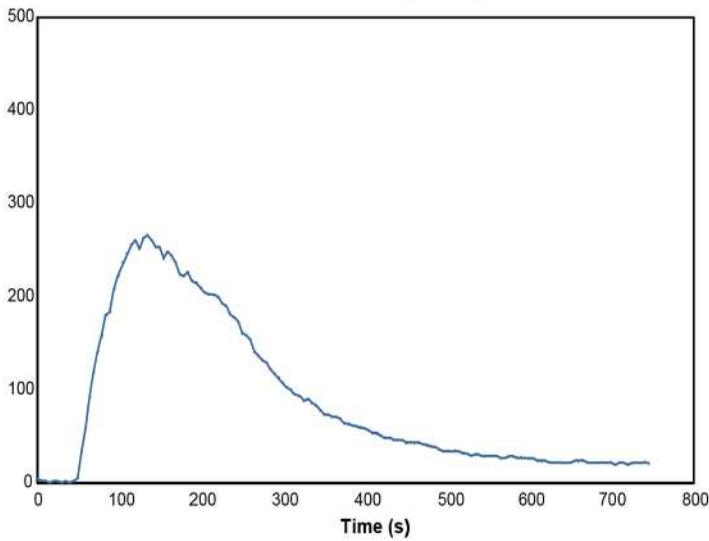
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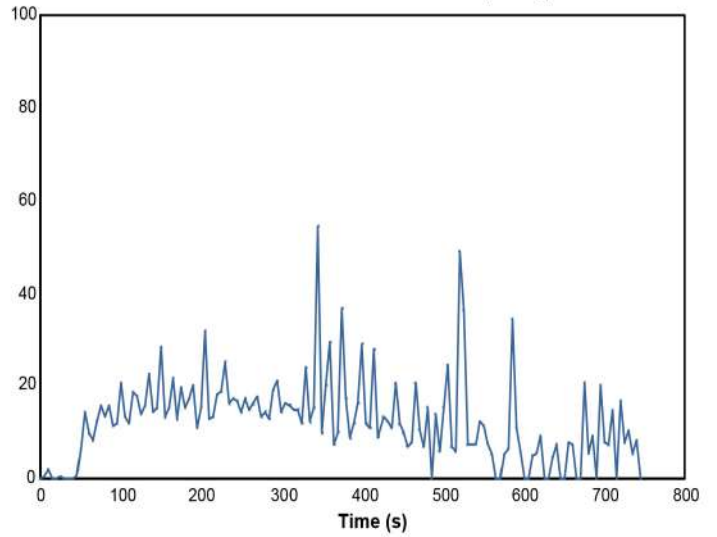
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Specimen : 3

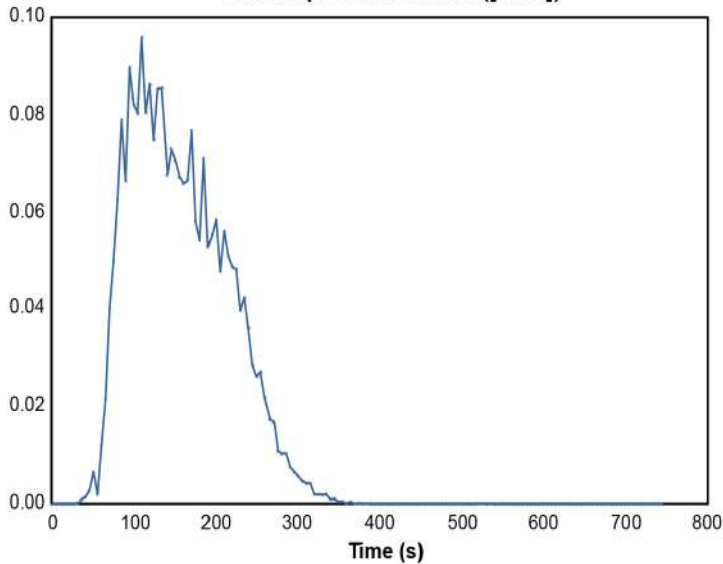
Heat release rate (kW/m²)



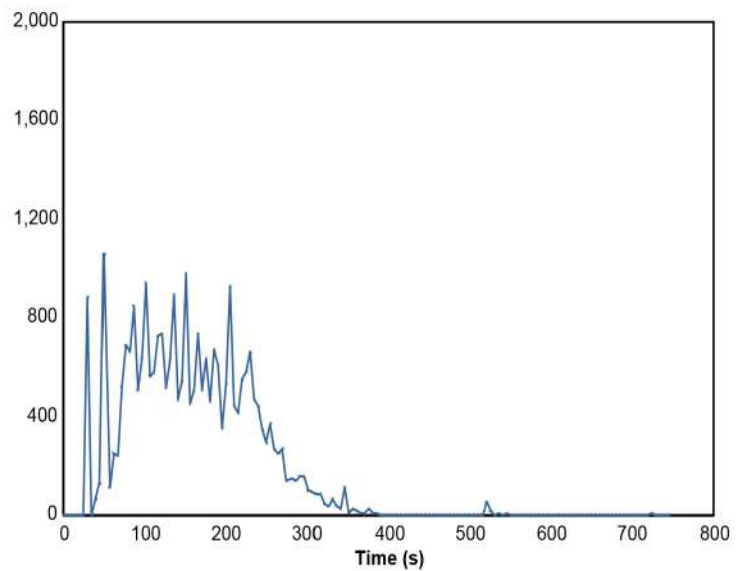
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)

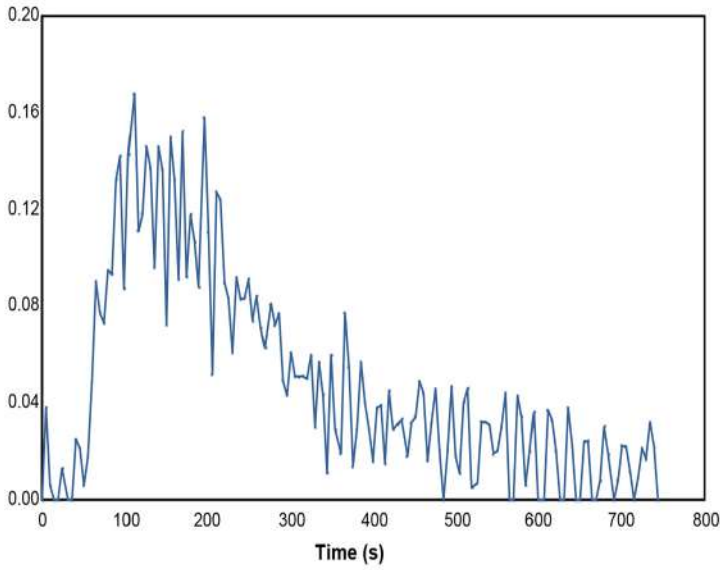


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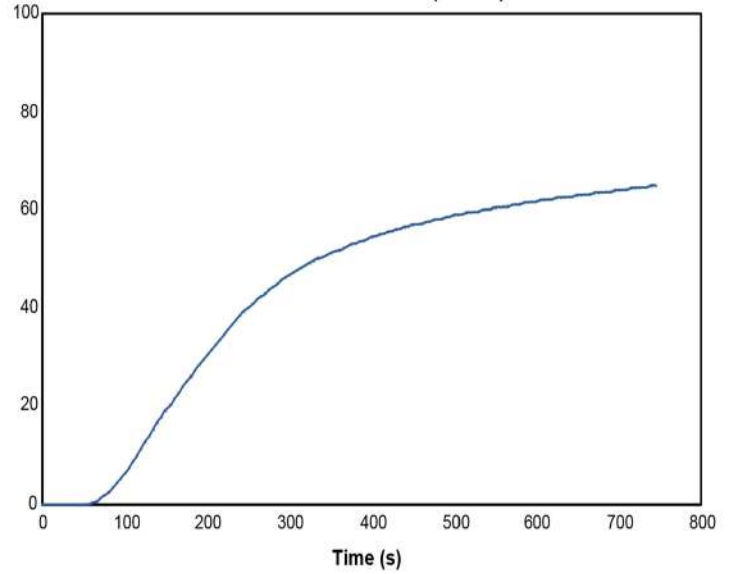
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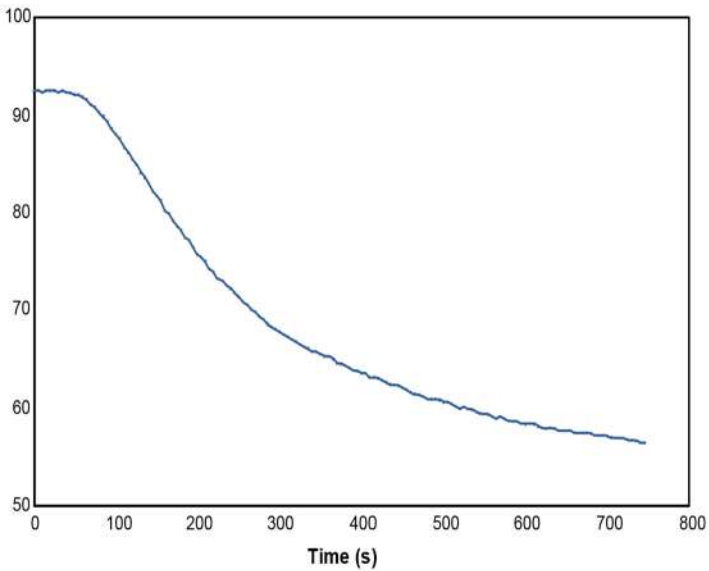
Mass loss rate (g/s)



Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)

