



## No. 1116310.2R

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell  
Auckland

SAMPLE RECEIVED FROM:  
At Work

Date: 5.11.15

SAMPLE DESCRIPTION:  
One woven blue fabric - ERA,  
100% Polyester, 450 g/lineal metre,  
End use – seating / screens / wall panels

Attn: Therese Ronalde

Client Order No.:

Client Reference:

1/8

### ISO 5660.1-2002 Reaction to Fire Tests – Heat release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method)

	Specimens			Mean
	1	2	3	
Average Heat Release	7.4	9.2	8.1	8.2 kW/m <sup>2</sup>
Group Number Classification* (* In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)	1S	1S	1S	
Average Specific Extinction Area* (* According to ISO 5660.2-2002)	98.9	99.0	117.6	105.2 m <sup>2</sup> /kg

Test Orientation: Horizontal

	Specimens			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	123	111	111	115 sec.
Test Duration	1923	1911	1911	1915 sec.

L A Greer  
Signatory

C Judan  
Signatory

18/12/2015

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	Specimens			Mean
	1	2	3	
Peak Heat Release After Ignition	132.7	137.0	140.7	136.8 kW/m <sup>2</sup>
Average Heat at 60 s	90.3	99.2	101.4	97.0 kW/m <sup>2</sup>
Average Heat at 180 s	53.5	54.7	53.1	53.8 kW/m <sup>2</sup>
Average Heat at 300 s	39.4	39.8	37.5	38.9 kW/m <sup>2</sup>
Total Heat Released	13.5	16.6	14.6	14.9 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	7.4	8.8	7.9	8.0 MJ/kg
Initial Thickness	6.8	6.8	6.8	6.8 mm
Initial Mass	89.0	87.7	88.0	88.2 g
Mass Remaining	71.1	69.4	70.2	70.2 g
Mass Percentage Pyrolysed	20.1	20.9	20.2	20.4%
Mass Loss	17.9	18.3	17.8	18.0 g
Average Rate of Mass Loss	1.0	1.0	1.0	1.0 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 sole criterion for assessment of performance under real fire conditions.


Samples were loose laid onto a substrate of 6mm thick cement sheeting 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.

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

This test was carried out by a sub-contracted laboratory.

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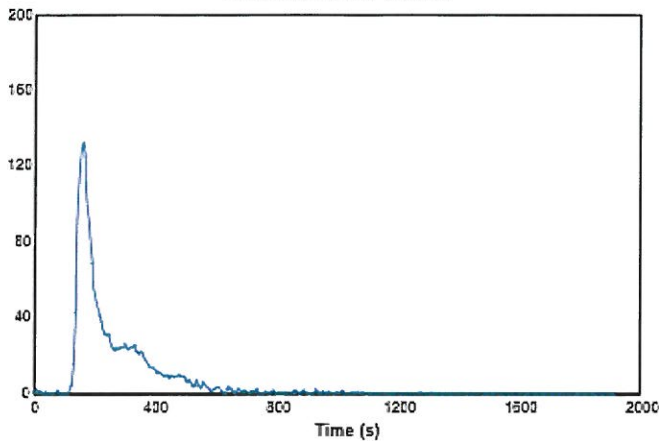
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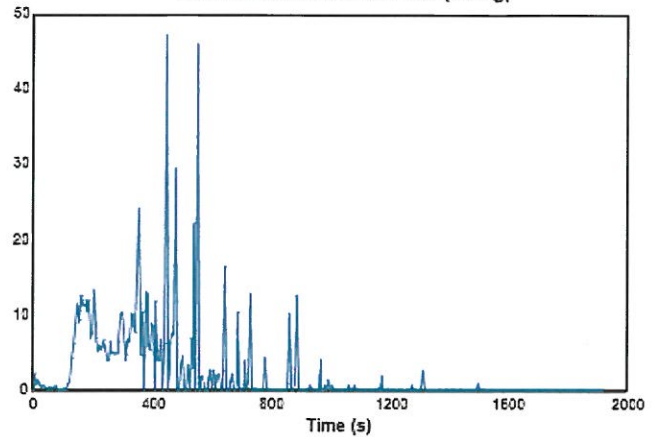
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Specimen : 1

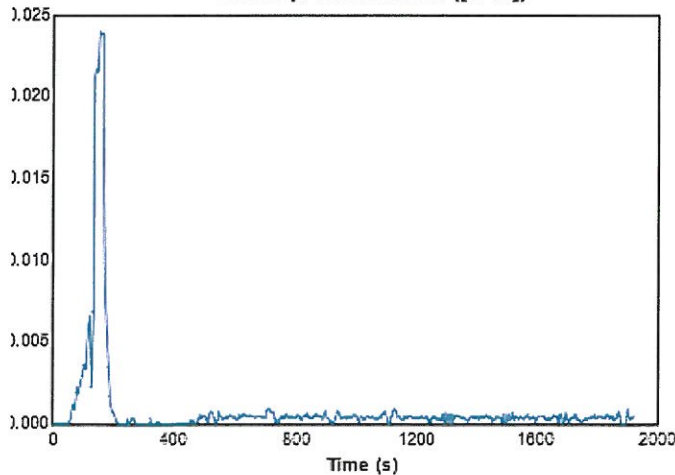
Heat release rate (kW/m<sup>2</sup>)



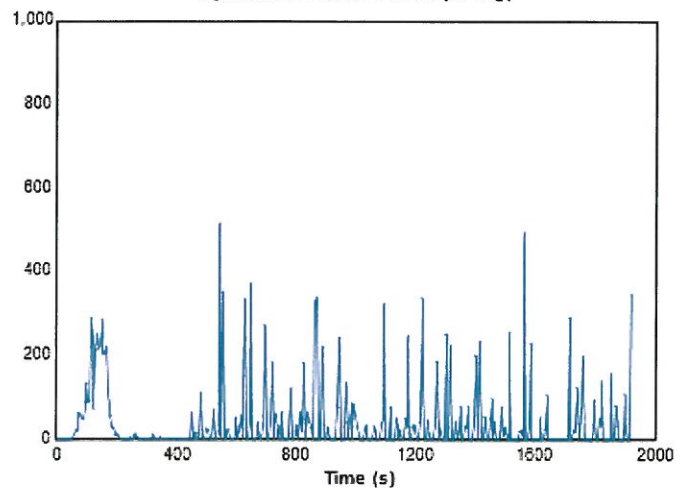
Effective heat of combustion (MJ/kg)



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



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



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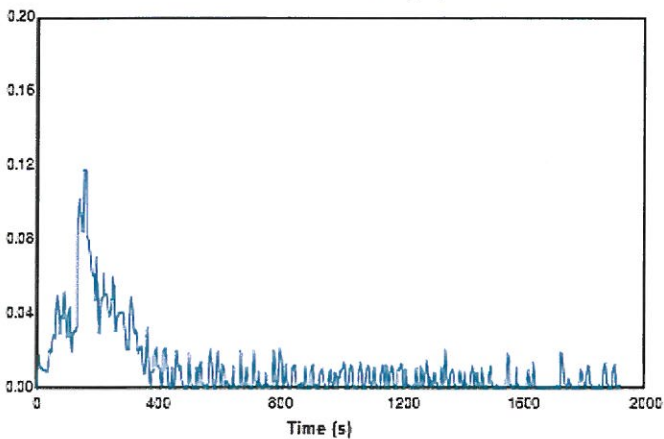
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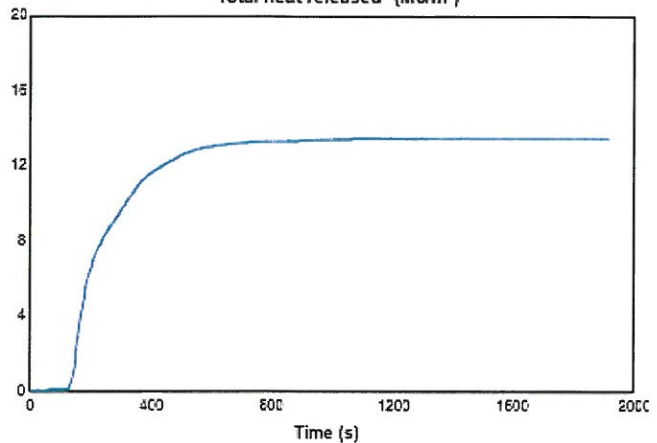
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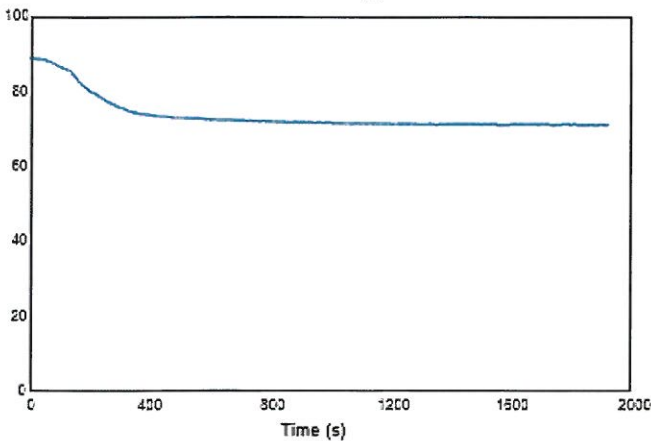
Mass loss rate (g/s)



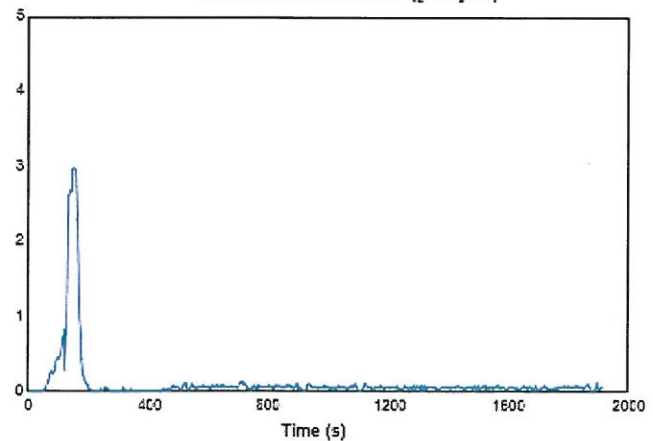
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m³/s]/m²)



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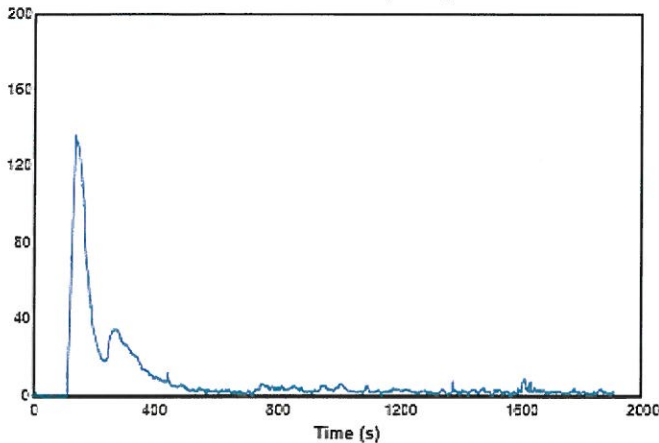
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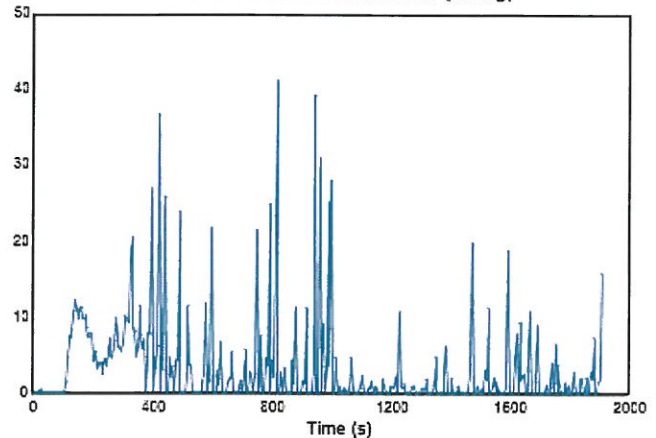
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Specimen : 2

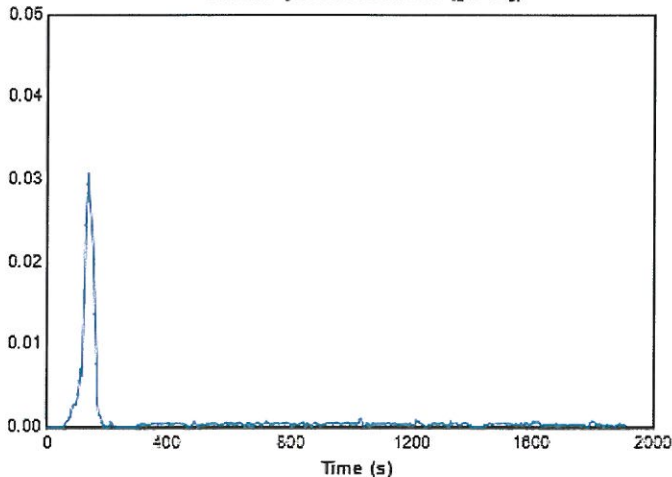
Heat release rate (kW/m<sup>2</sup>)



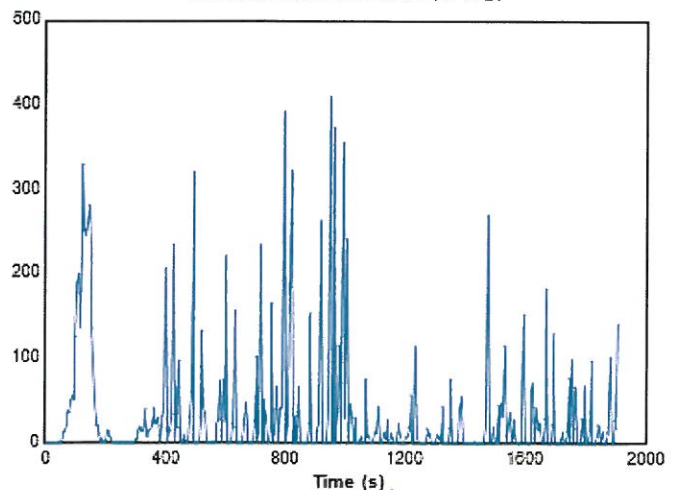
Effective heat of combustion (MJ/kg)



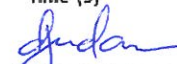
Smoke production rate ([m<sup>2</sup>/s])



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



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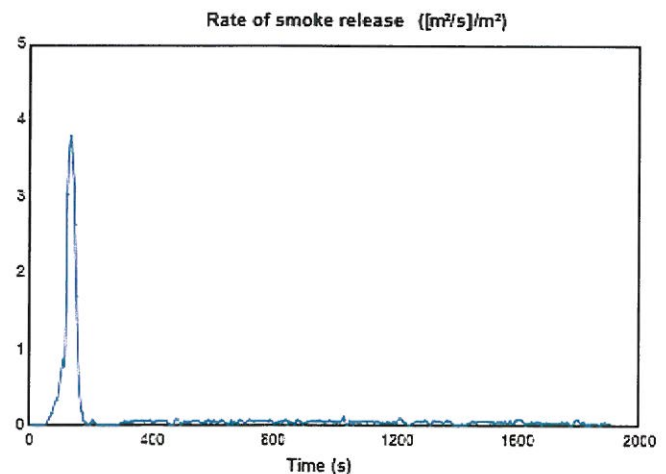
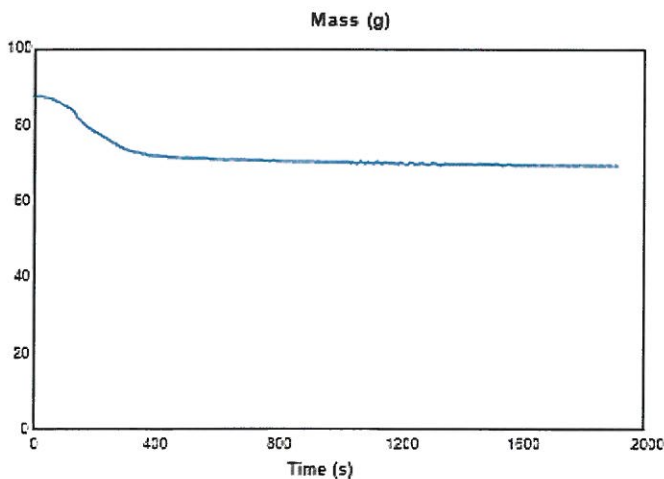
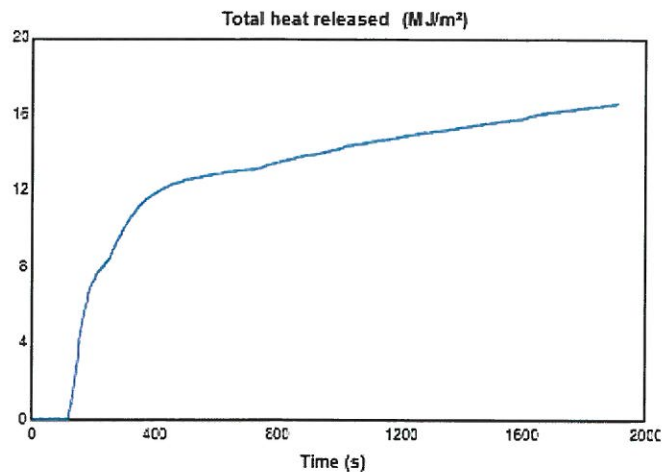
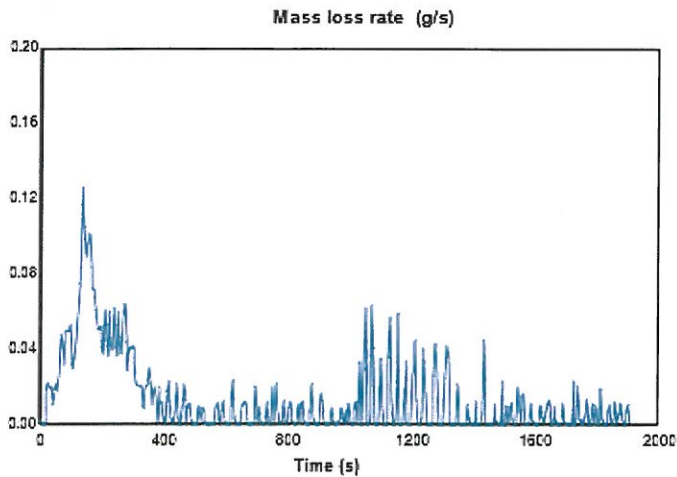
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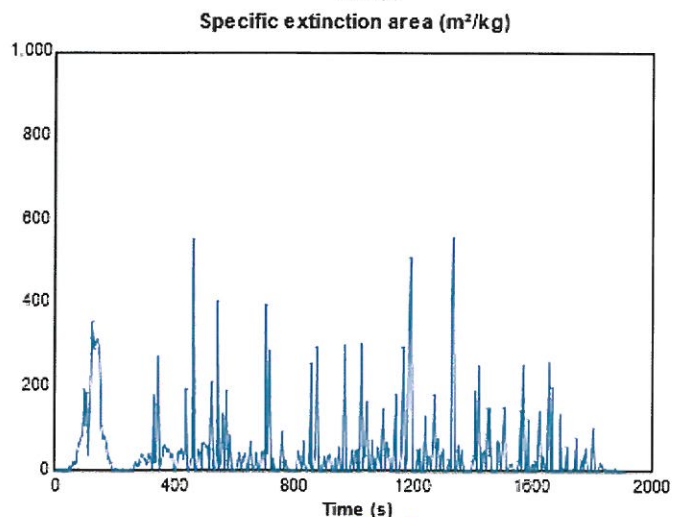
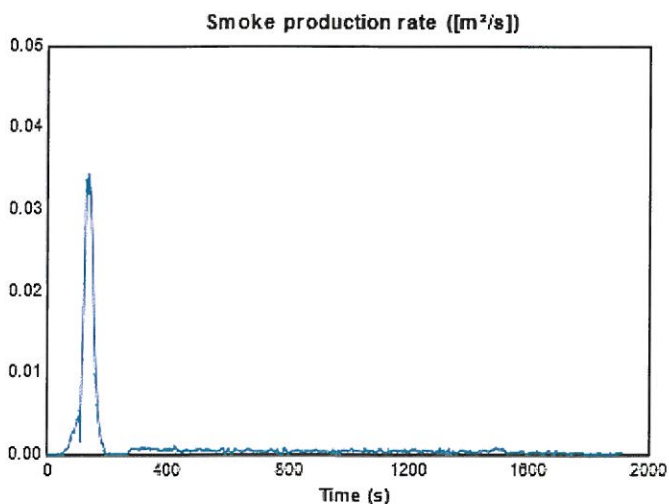
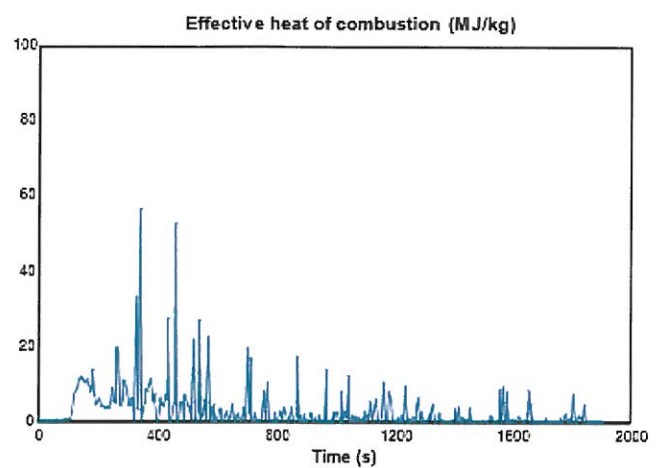
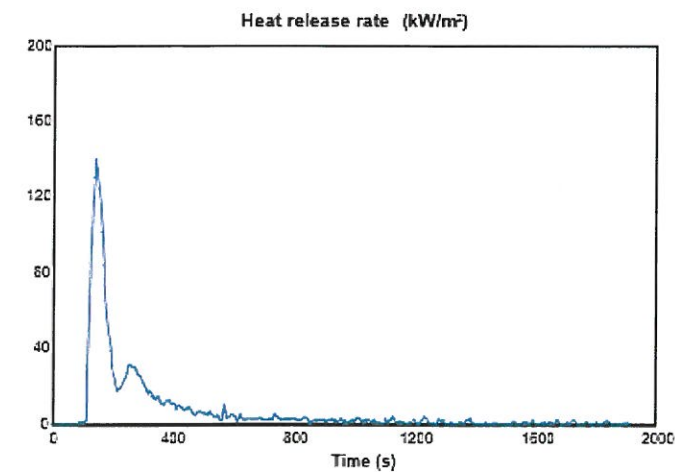
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Specimen : 3



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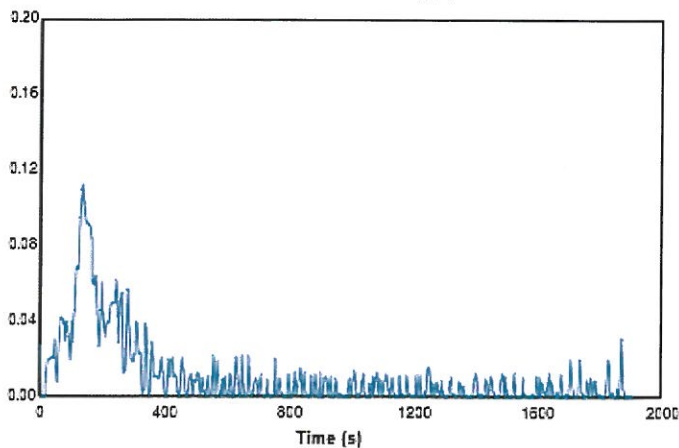
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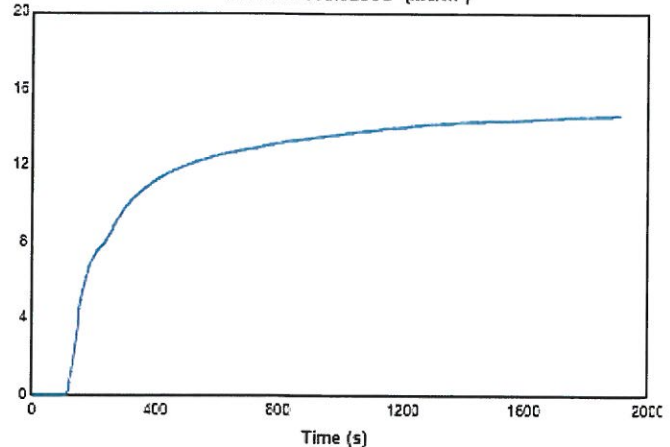
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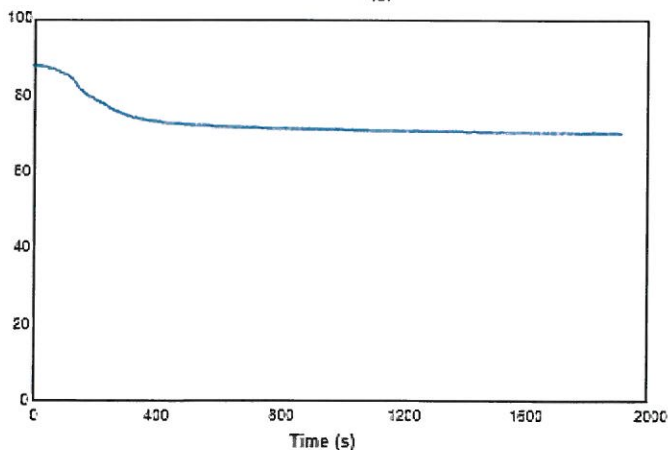
Mass loss rate (g/s)



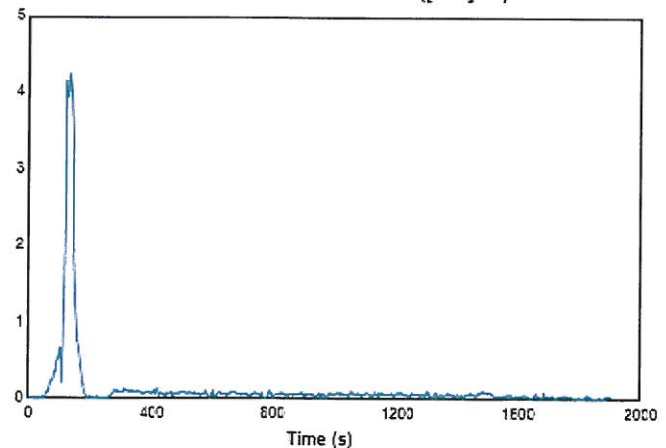
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m³/s)/m²)



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