



No. 1117988.4

(Please quote this number in all correspondence)

CLIENT: At Work
PO Box 37 378
Parnell
Auckland
Attn: Therese Ronalde

SAMPLE RECEIVED FROM: At Work

SAMPLE DESCRIPTION:
One Synergy woven green fabric, 95% Wool 5% Polyamide
560 g/lineal metre,
End use – upholstery / wall panels

Date: 25.11.15

Client Order No.: Client Reference: 1/8

**ISO 5660.1-2015 Reaction to Fire Tests – Heat Release Smoke Production and Mass Loss Rate
Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate
(Dynamic Measurement)**

	Specimens			
	1	2	3	Mean
Average Heat Release	9.8	10.2	8.7	9.6 kW/m ²
Group Number Classification*	2S	2S	2S	
(* In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				
Average Specific Extinction Area*	16.2	18.7	35.4	23.4 m ² /kg
(* According to ISO 5660.2-2002)				

Test Orientation: Horizontal

	Specimens			
	1	2	3	Mean
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	24	24	24	24 L/sec.
Time to Sustained Flaming	12	10	11	11 sec.
Test Duration	1812	1810	1811	1811 sec.

L A Greer
Signatory


C Judan
Signatory

10/12/2015

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	Specimens			Mean
	1	2	3	
Peak Heat Release After Ignition	192.6	210.5	202.6	201.9 kW/m ²
Average Heat at 60 s	88.0	99.8	93.4	93.7 kW/m ²
Average Heat at 180 s	30.6	34.8	33.8	33.1 kW/m ²
Average Heat at 300 s	20.9	24.2	24.3	23.1 kW/m ²
Total Heat Released	17.8	18.4	15.8	17.3 MJ/m ²
Ave. Effective Heat of Combustion	7.8	8.1	7.0	7.6 MJ/kg
Initial Thickness	6.5	6.5	6.5	6.5 mm
Initial Mass	92.0	88.6	87.6	89.4 g
Mass Remaining	73.3	70.1	69.2	70.9 g
Mass Percentage Pyrolysed	20.3	20.9	21.0	20.7%
Mass Loss	18.7	18.5	18.4	18.5 g
Average Rate of Mass Loss	1.3	1.3	1.2	1.3 g/m ² .s

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.

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.

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

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

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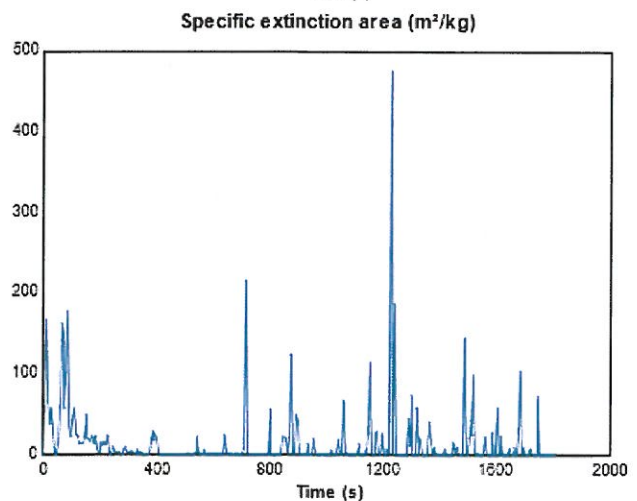
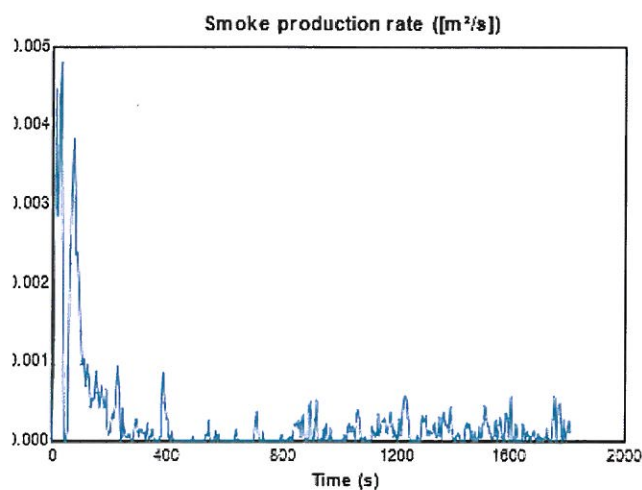
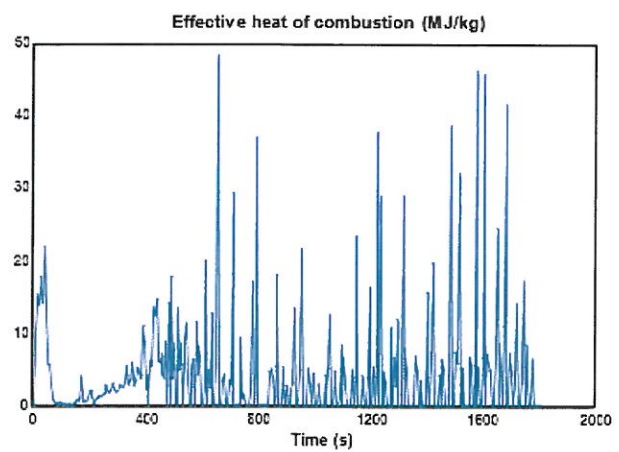
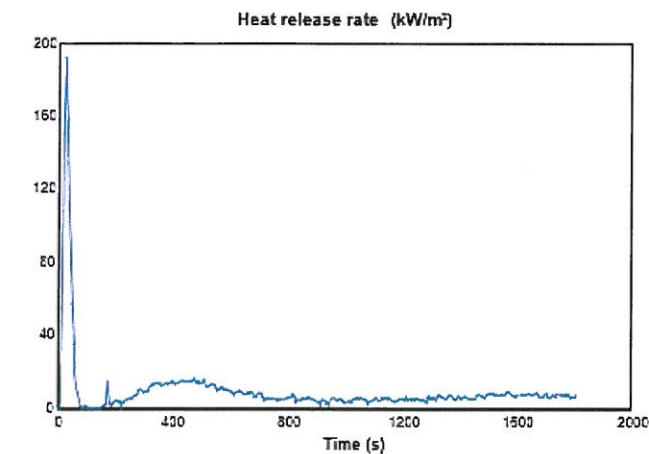
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3/8

Specimen : 1



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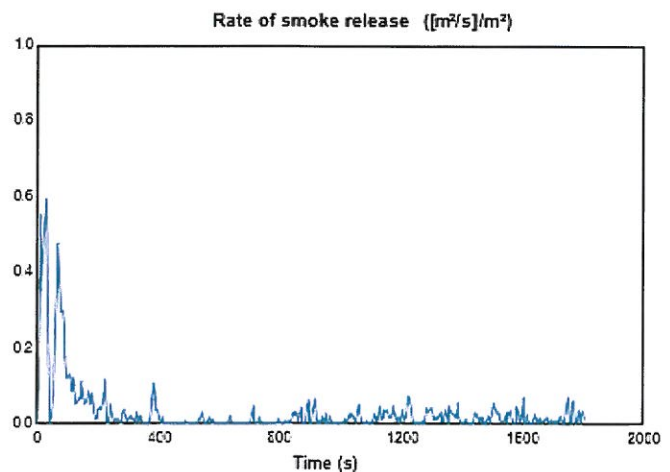
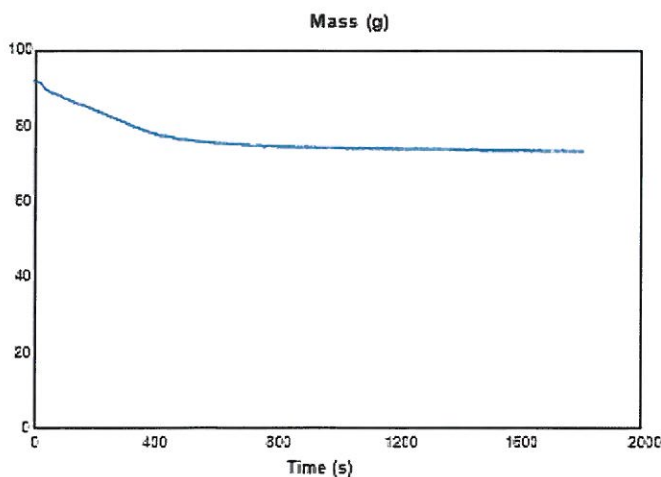
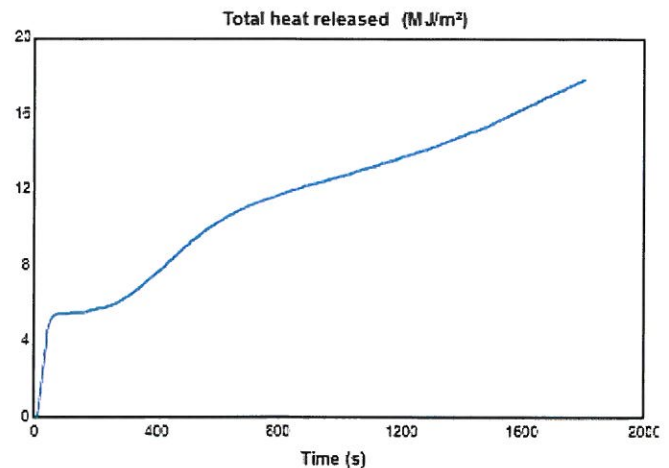
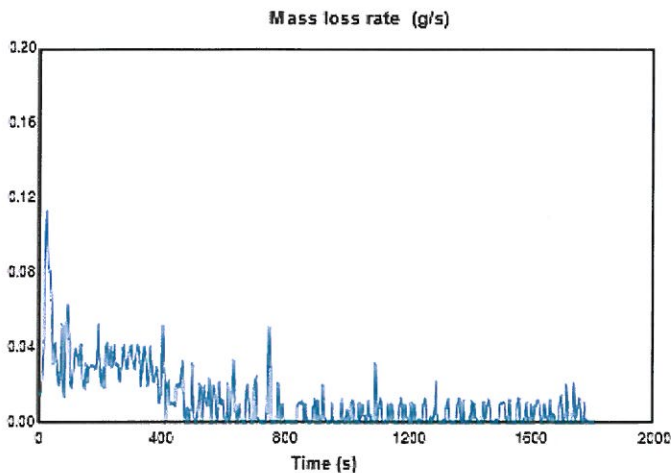
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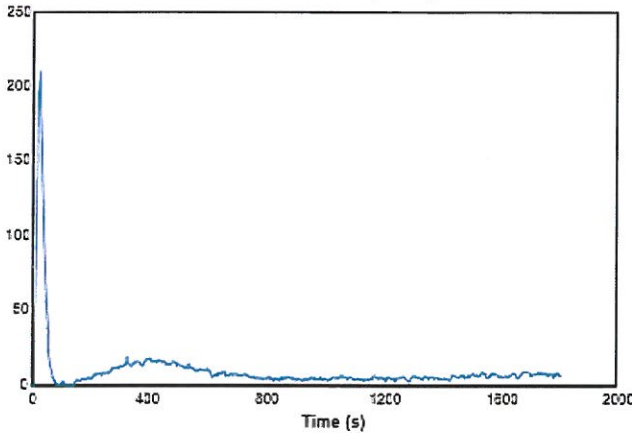
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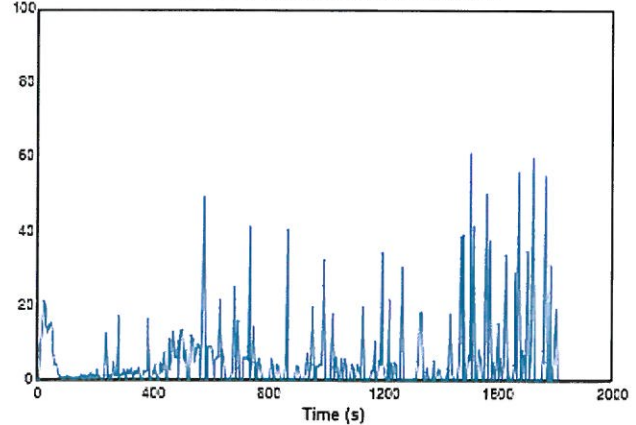
5/8

Specimen : 2

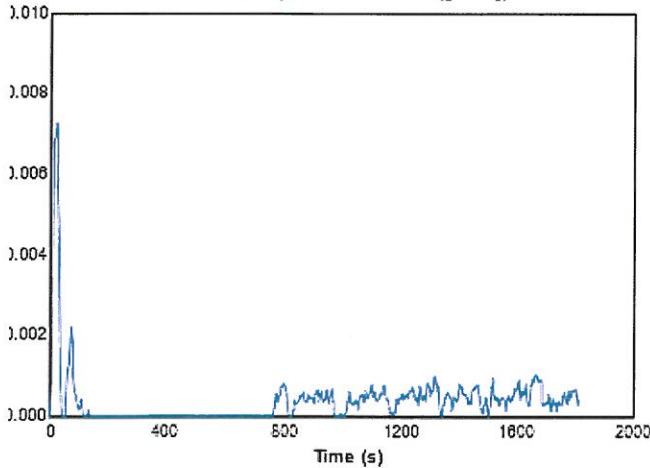
Heat release rate (kW/m²)



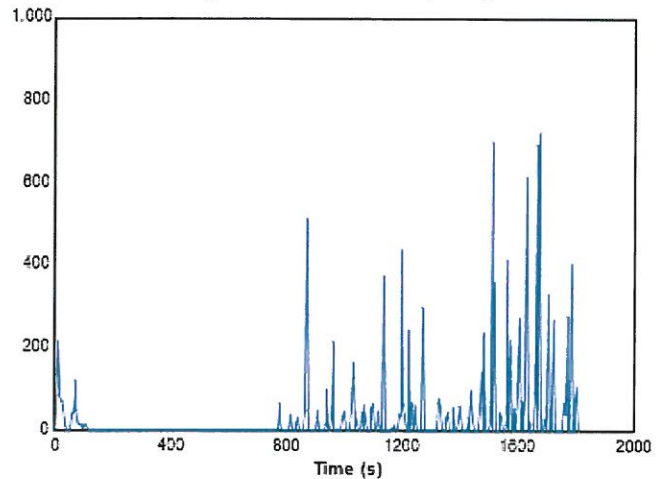
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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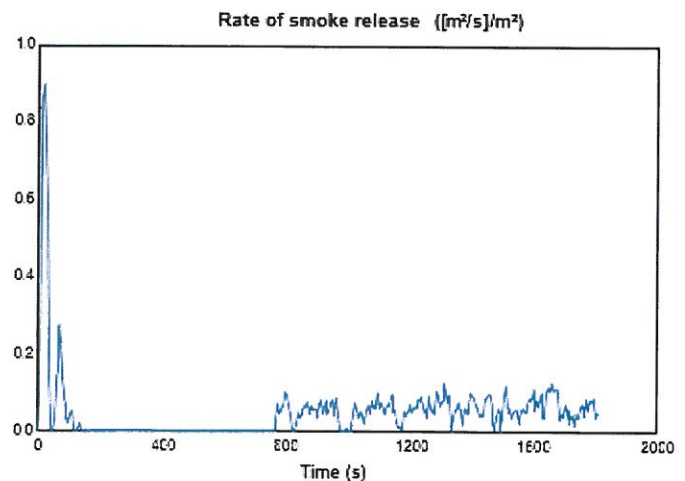
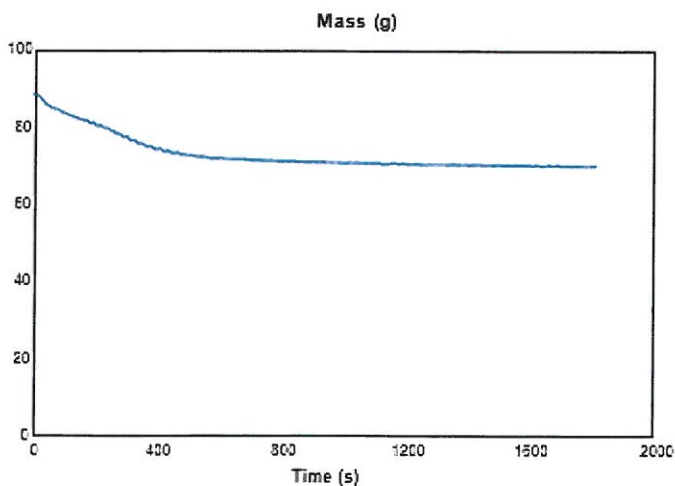
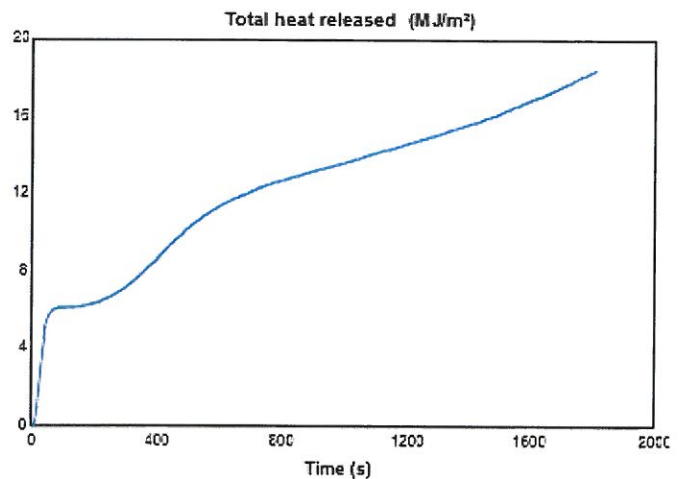
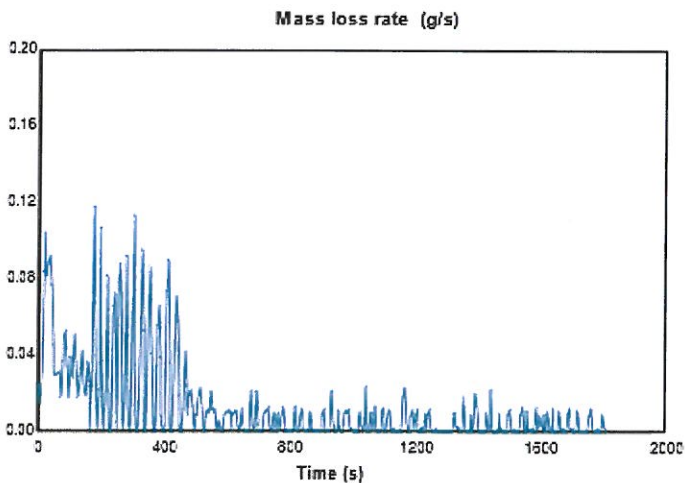
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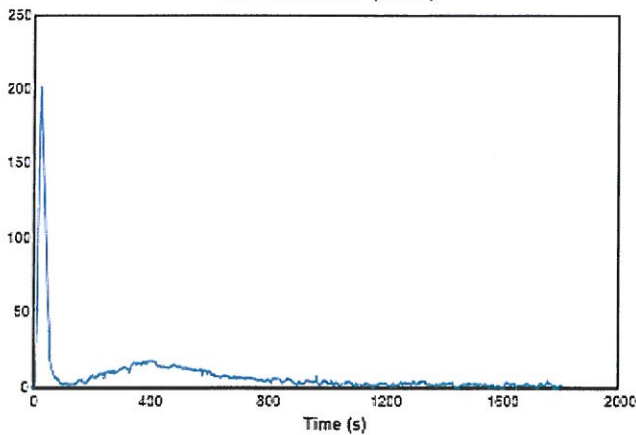
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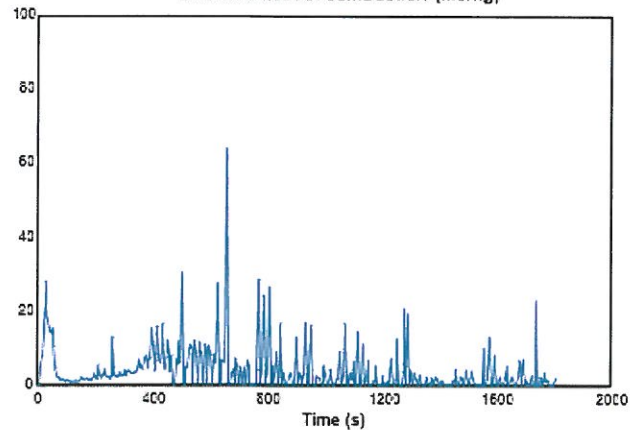
7/8

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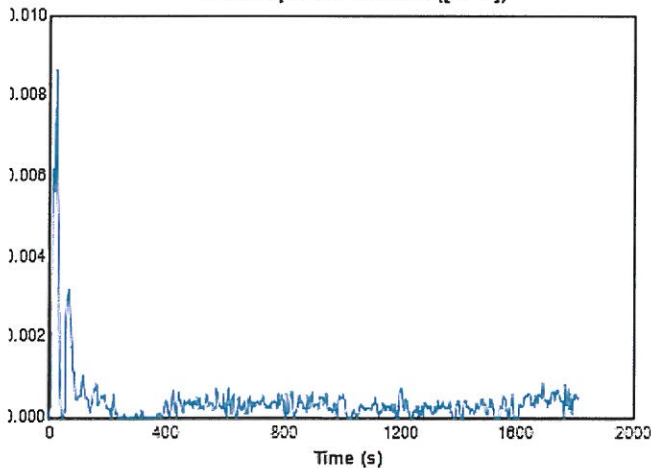
Heat release rate (kW/m²)



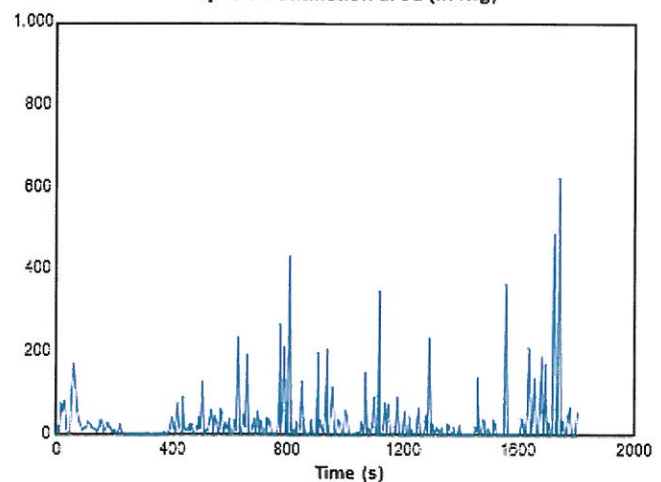
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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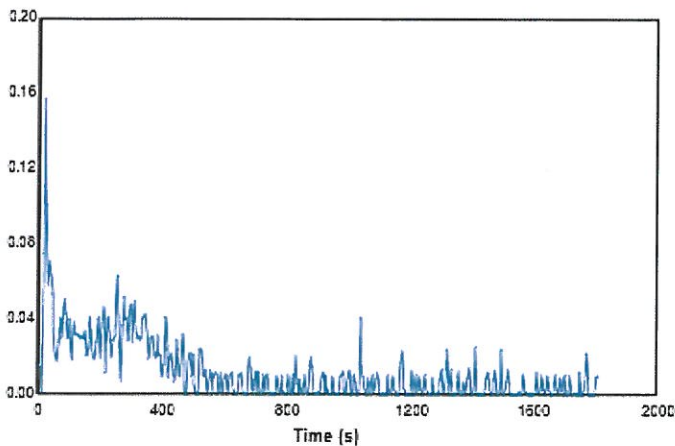
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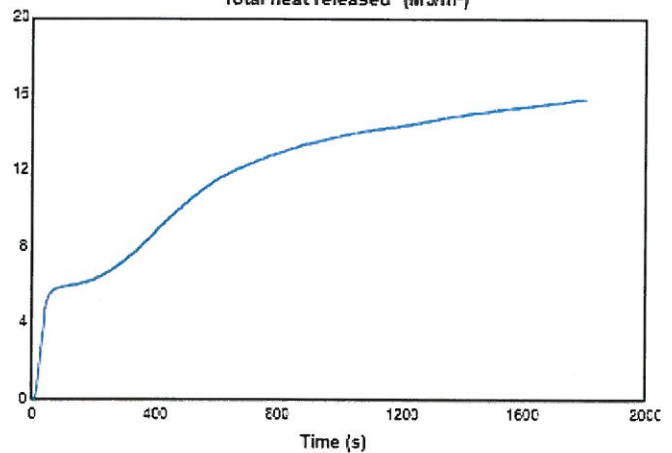
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8/8

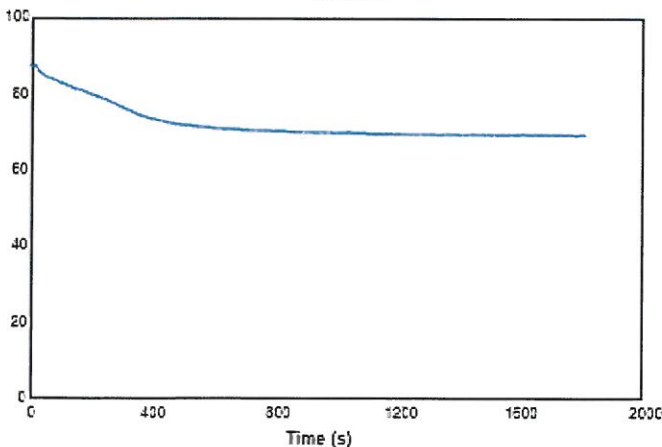
Mass loss rate (g/s)



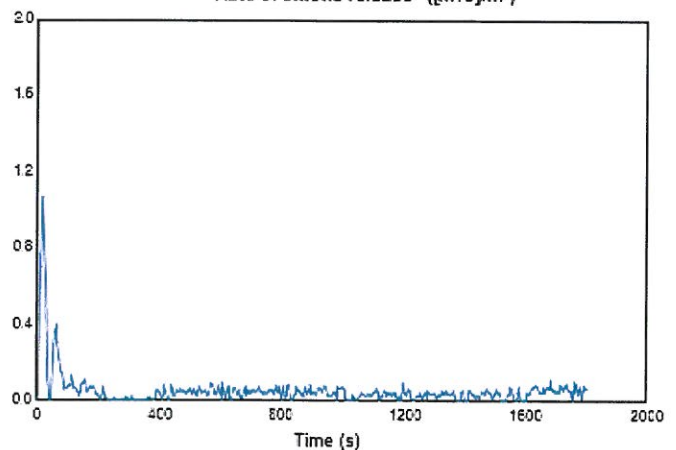
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m³/s)/m²)



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