



## No. 1315724.3

(Please quote this number in all correspondence)

CLIENT: At Work  
 PO Box 37 378  
 Parnell, Auckland

SAMPLE RECEIVED FROM: At Work

Date Received: 3.2.20

SAMPLE DESCRIPTION:  
 Multi colour woven fabric – Traverse  
 Nominal Composition – 76% Wool 24% Nylon  
 Nominal Weight – 726g lineal metre  
 End Use – Upholstery, Panel

Client Order No.: Client Reference: 1 of 14

**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)**

Note: This test was sub-contracted (Test No. 20-000603).

	Specimens						Mean
	1	2	3	4	5	6	
Average Heat Release Rate	8.2	9.2	7.2	13.2	15.1	16.4	11.6 kW/m <sup>2</sup>
Average Specific Extinction Area	44.1	1.3	1.2	1.4	1.4	1.4	8.5 m <sup>2</sup> /kg

Group Number Classification **3**  
 (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)

Test Orientation: Horizontal

	Specimens						Mean
	1	2	3	4	5	6	
Irradiance	50	50	50	50	50	50	50 kW/m <sup>2</sup>
Exhaust Flow Rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024 m <sup>3</sup> /sec.
Time to Sustained Flaming	9	8	12	13	9	12	11 sec.
Test Duration	1809	1808	1812	1813	1809	1812	1811 sec.
Peak Heat Release After Ignition	198.0	198.2	197.6	253.2	196.8	233.0	212.8 kW/m <sup>2</sup>
Average Heat at 60 s	109.0	102.4	108.6	133.6	126.4	126.3	117.7 kW/m <sup>2</sup>
Average Heat at 180 s	51.0	40.6	58.0	67.6	63.4	70.0	58.4 kW/m <sup>2</sup>
Average Heat at 300 s	38.7	35.2	45.2	52.4	50.6	56.0	46.3 kW/m <sup>2</sup>
Total Heat Released	16.8	16.9	17.5	23.9	27.2	29.5	22.0 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	6.6	7.4	5.8	9.3	10.6	11.9	8.6 MJ/kg
Initial Thickness	7	7	7	7	7	7	7 mm
Initial Mass	91.3	90.3	90.0	91.4	90.9	90.7	90.8 g
Mass at Sustained Flaming	91.3	89.9	90.0	91.4	90.9	90.7	90.7 g
Mass Remaining	73.3	71.9	72.0	70.4	70.0	70.7	71.4 g
Mass Percentage Pyrolysed	19.7	20.4	20.0	23.0	23.0	22.1	21.4 %
Mass Loss	2224.3	2270.6	2221.7	2592.3	2576.8	2472.9	2393.1 g/m <sup>2</sup>
Average Rate of Mass Loss	1.2	1.3	1.2	1.4	1.4	1.4	1.3 g/m <sup>2</sup> .s

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Total Smoke Production (non-flaming phase)	0.2	0.0	1.1	1.7	0.1	0.9	0.7 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	100.7	93.9	36.8	45.0	55.0	41.2	62.1 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	100.9	93.9	37.9	46.7	55.1	42.1	62.8 m <sup>2</sup> /m <sup>2</sup>
Specimen Surface Area	0.00810	0.00810	0.00810	0.00810	0.00810	0.00810	- m <sup>2</sup>
C-Factor (Calibration Constant)	0.039482	0.039482	0.039482	0.041313	0.041313	0.041313	-

Additional Observation: 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 sole criterion for assessment of performance under real fire conditions.

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

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

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

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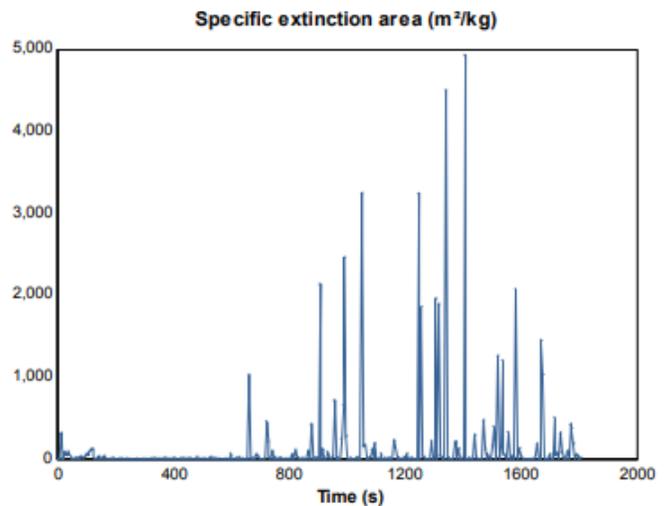
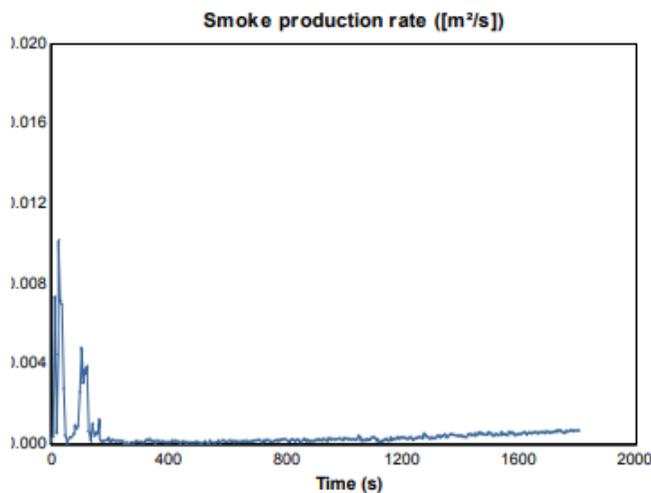
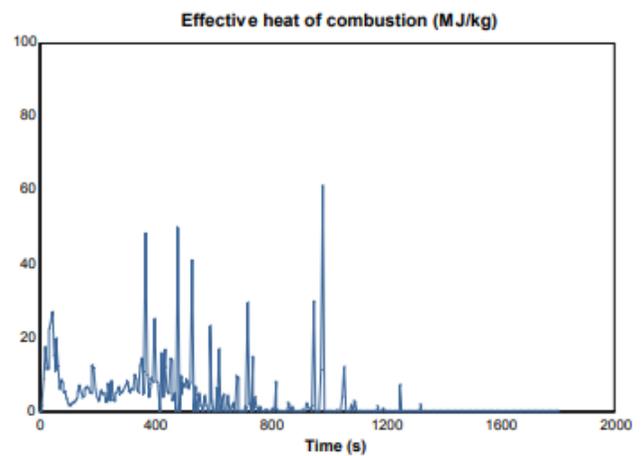
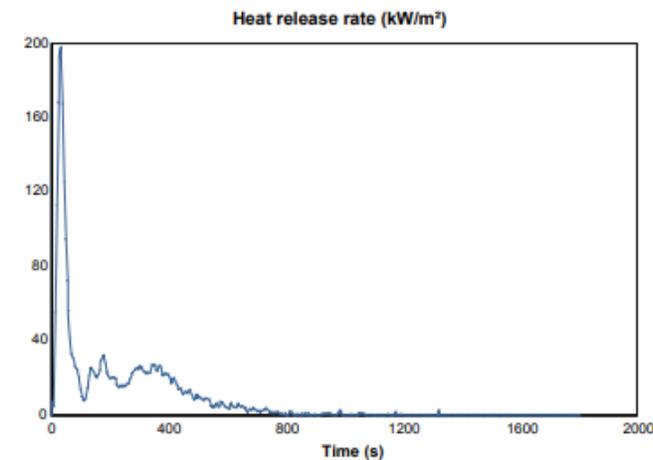
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Specimen : 1



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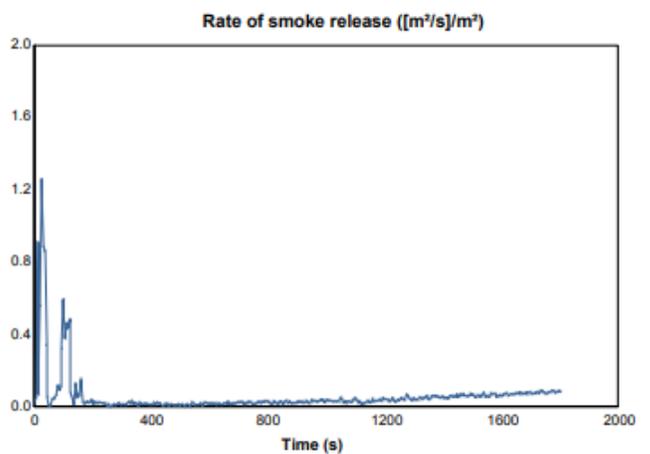
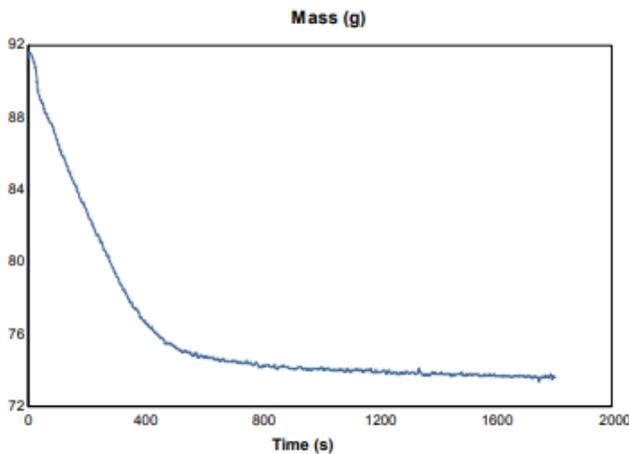
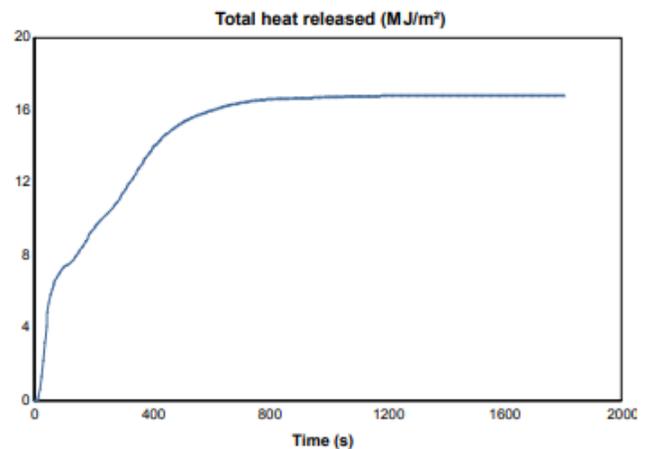
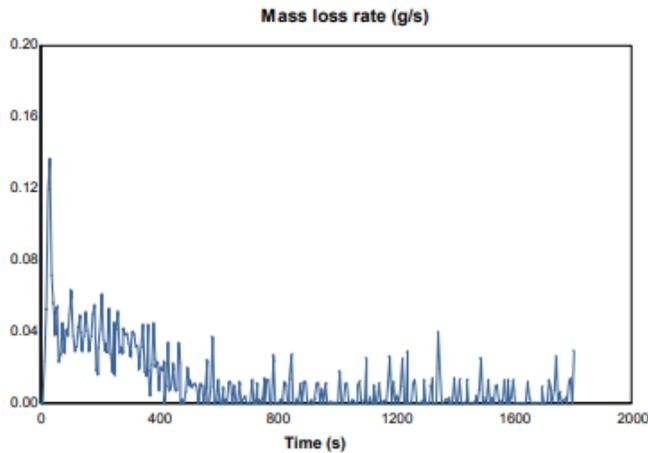
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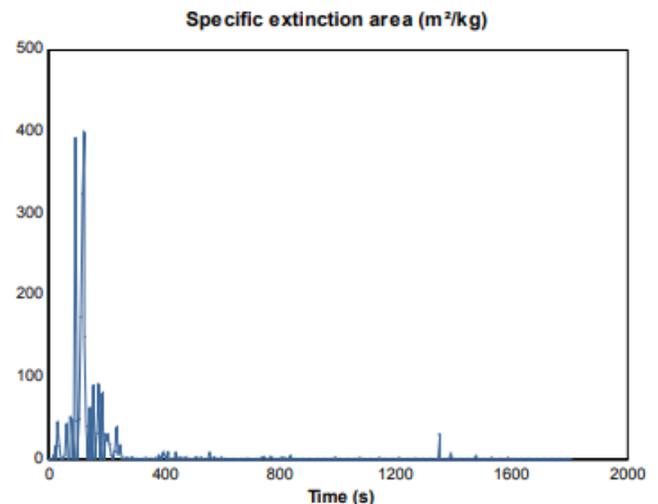
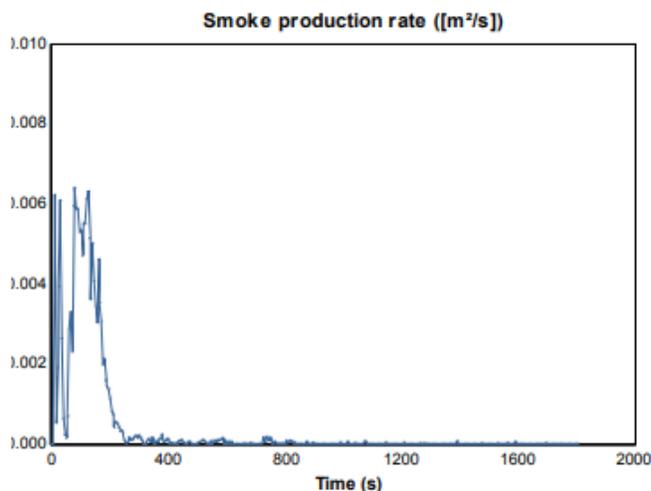
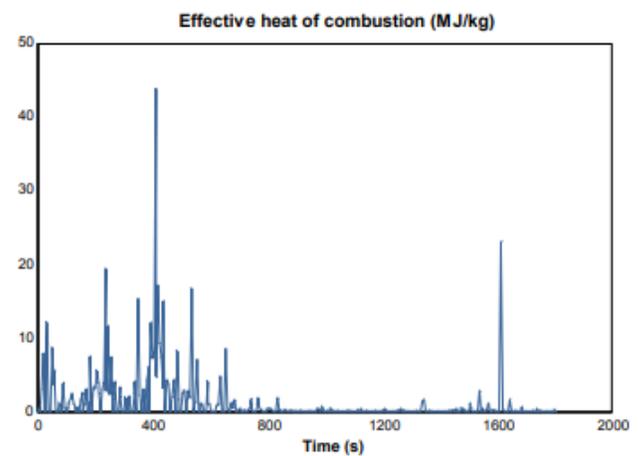
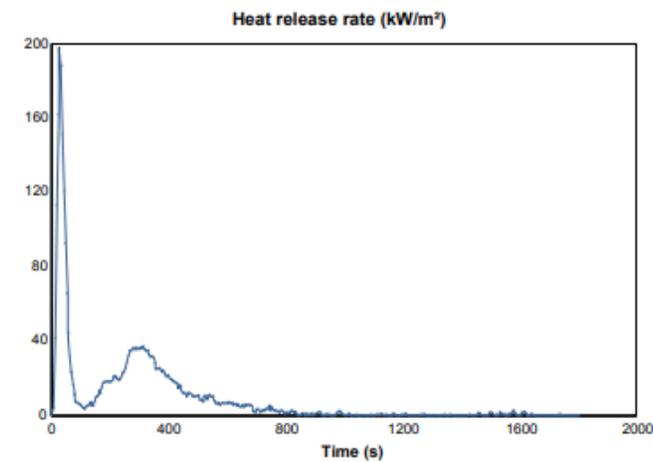
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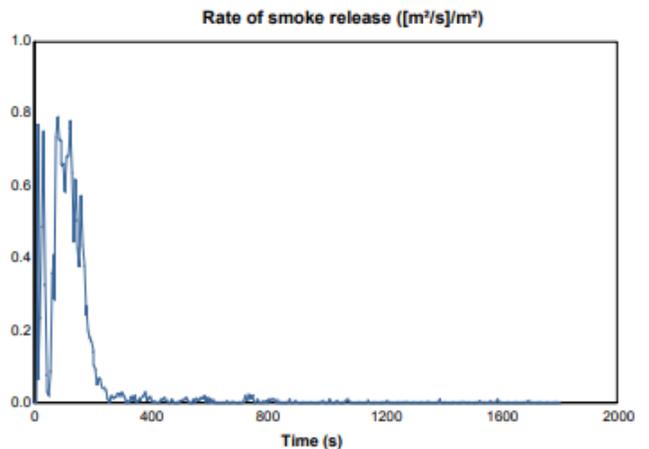
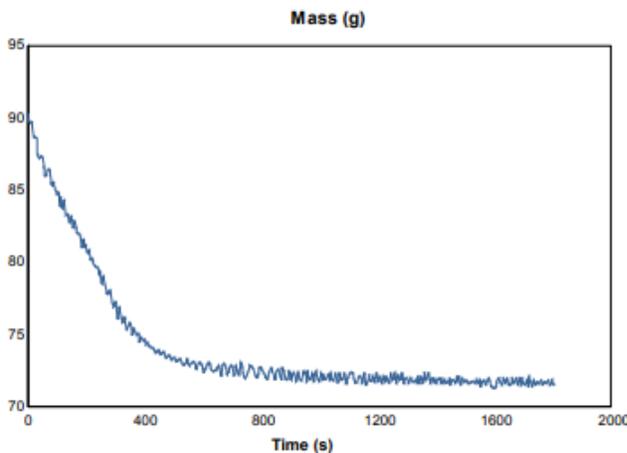
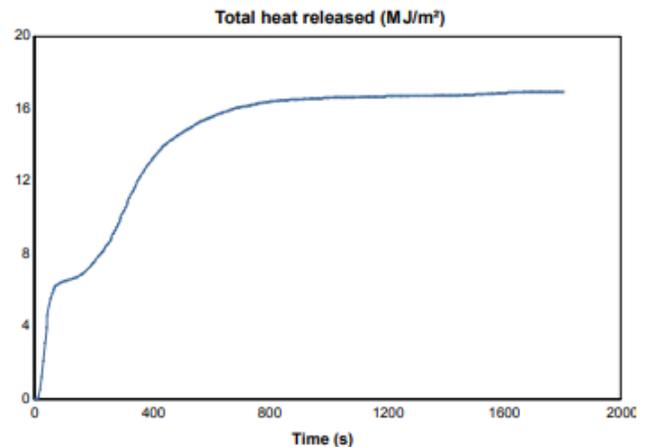
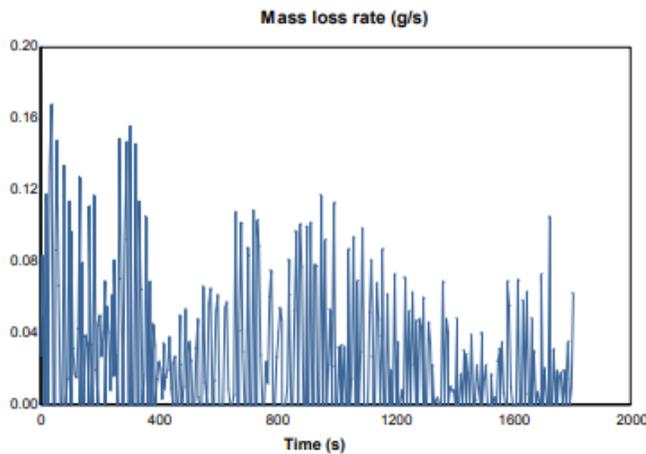
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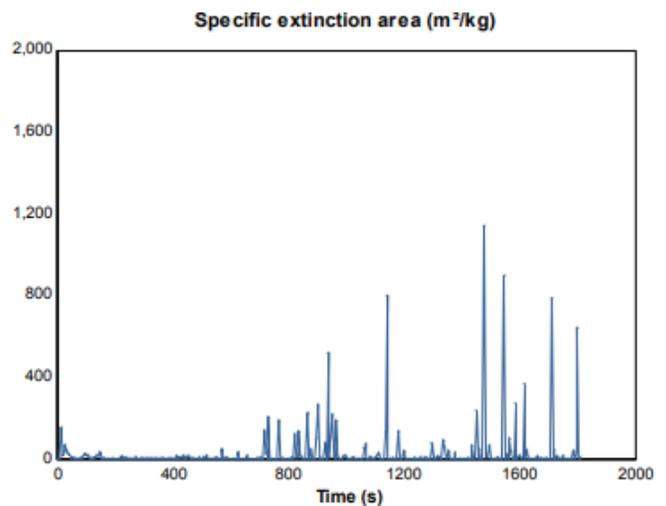
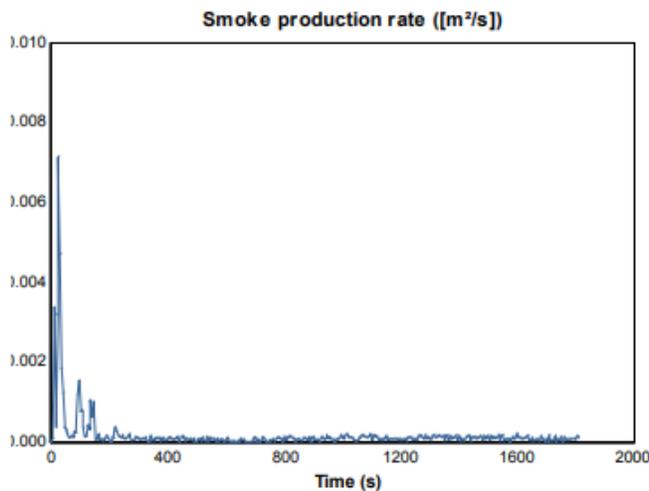
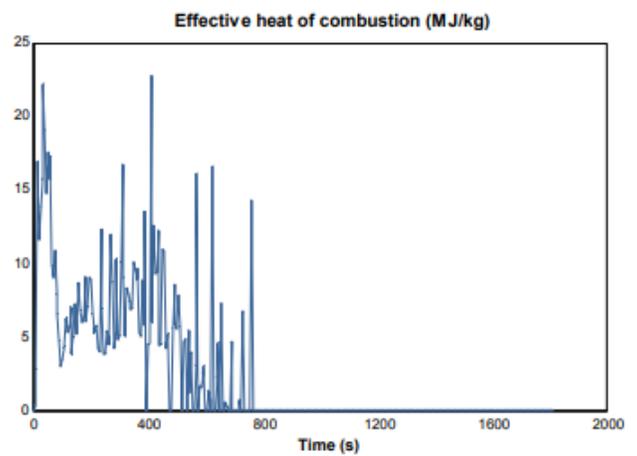
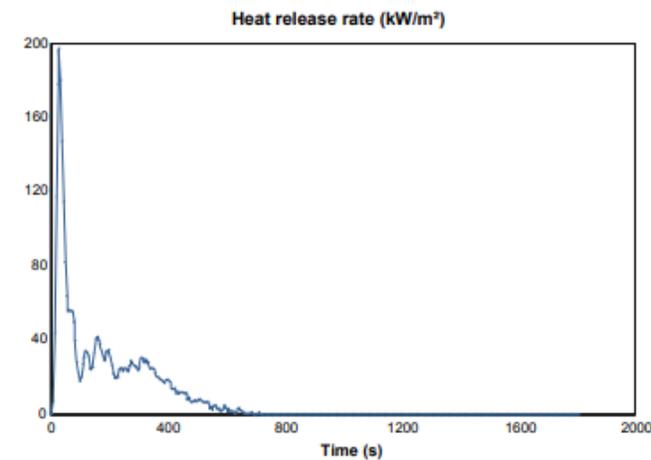
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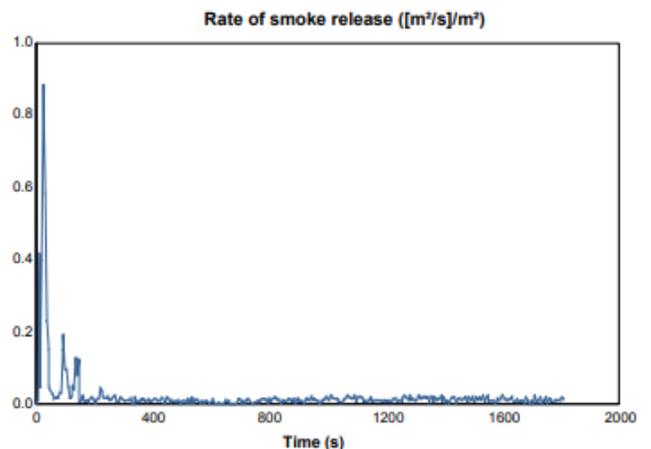
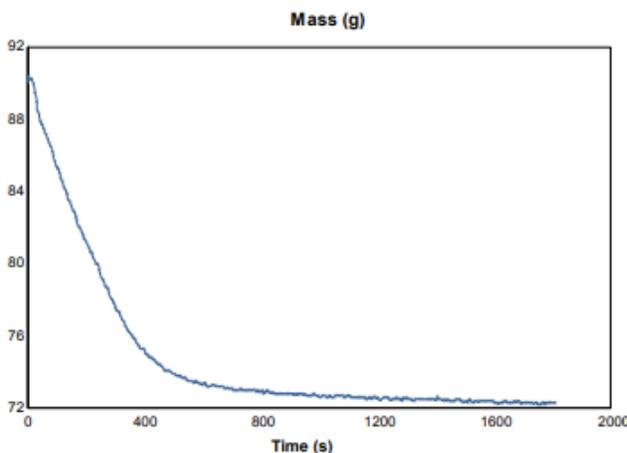
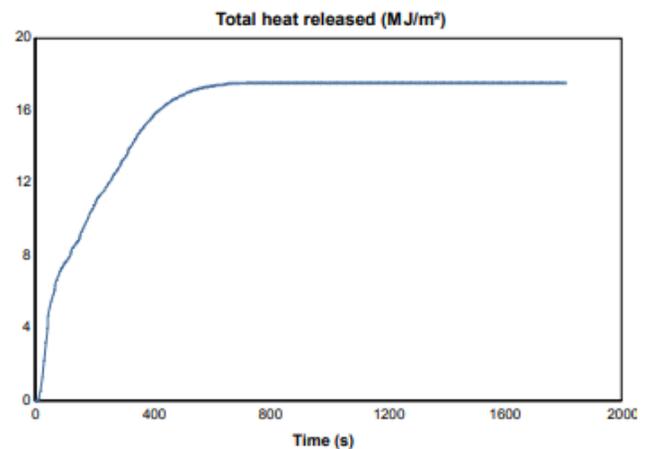
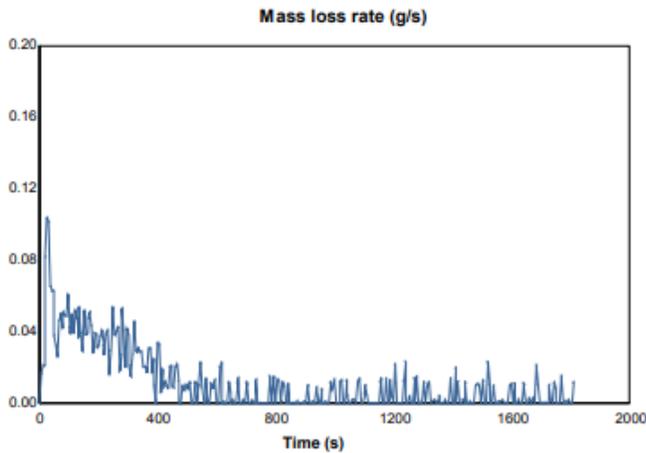
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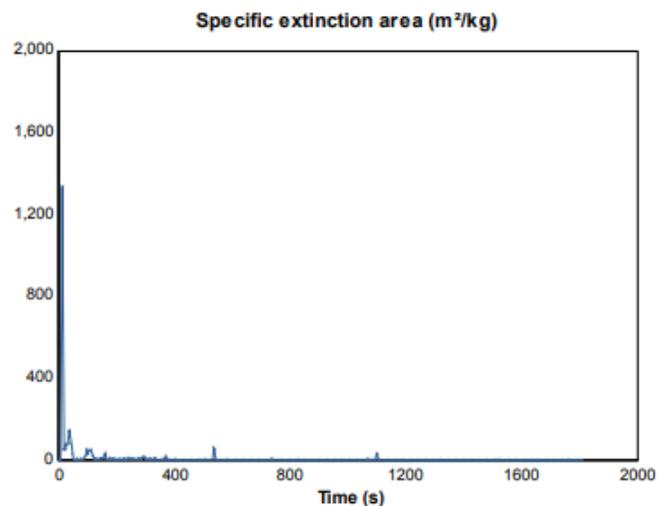
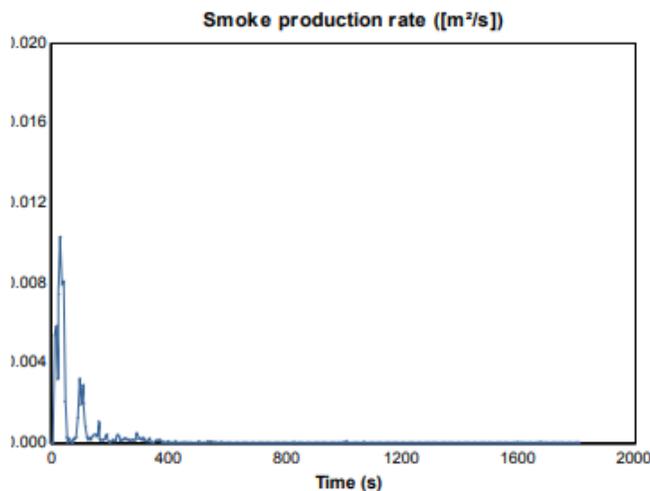
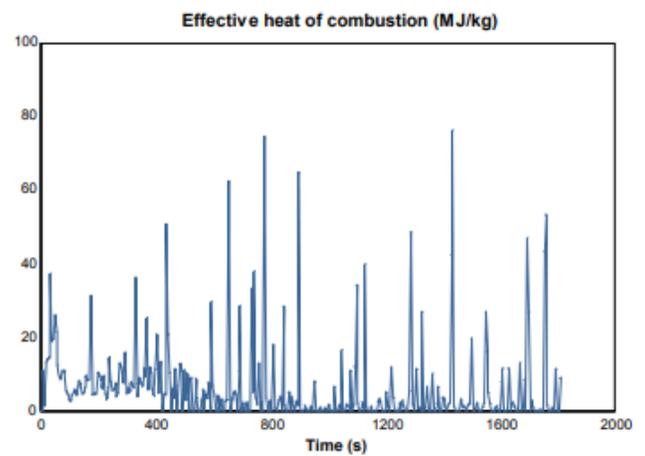
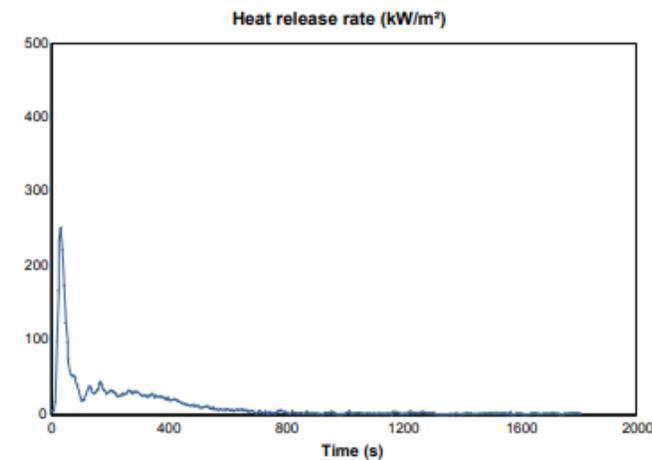
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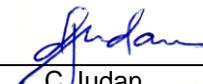
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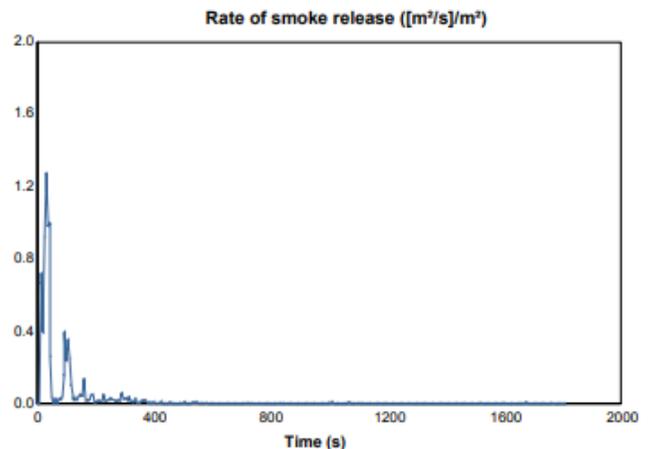
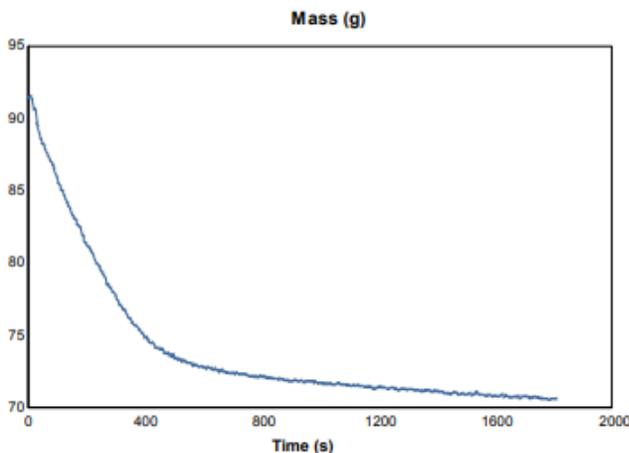
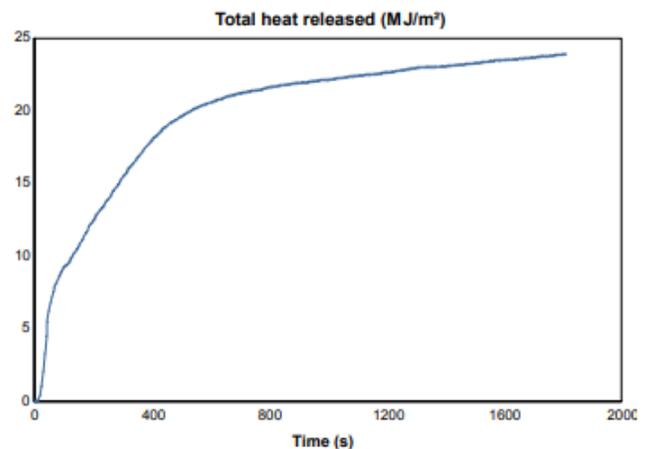
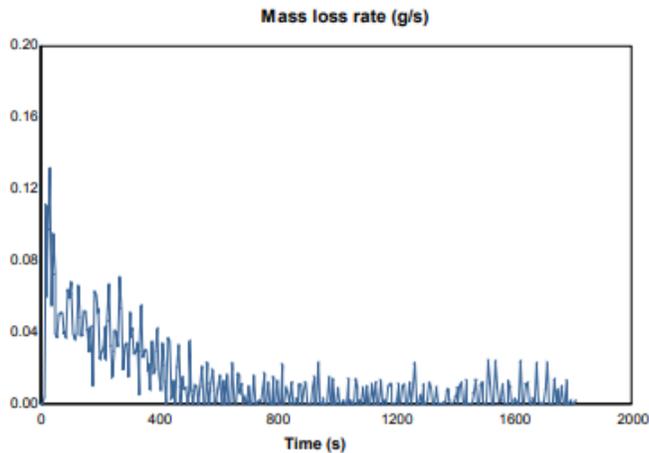
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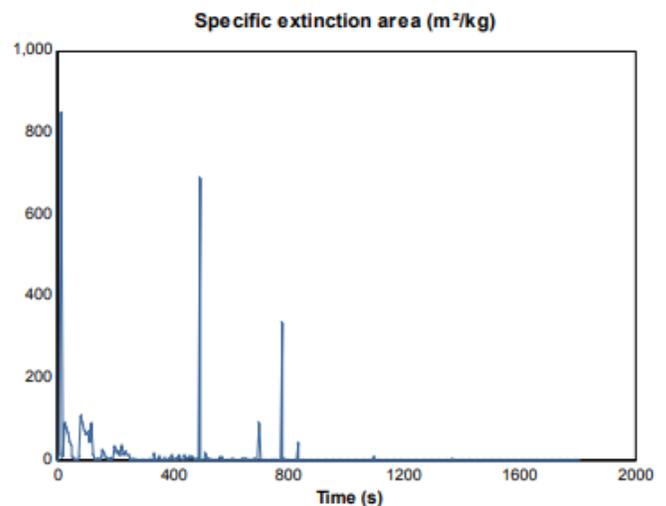
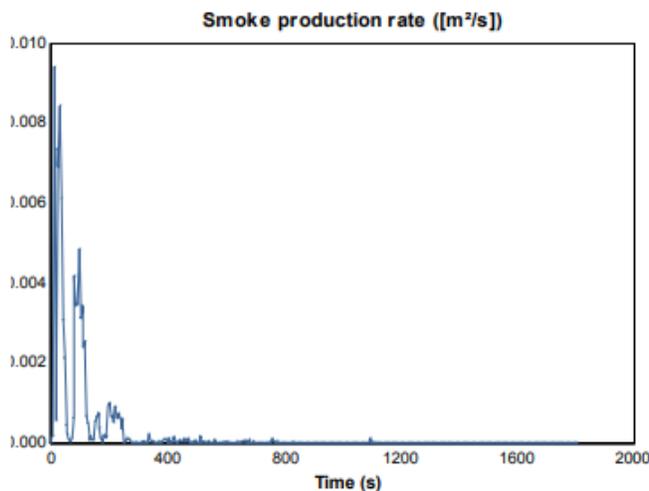
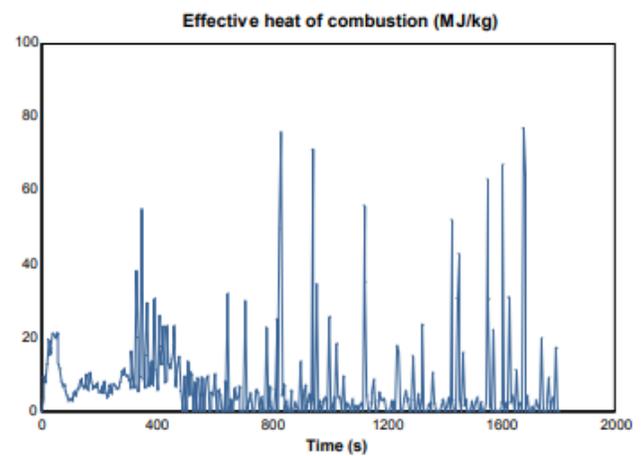
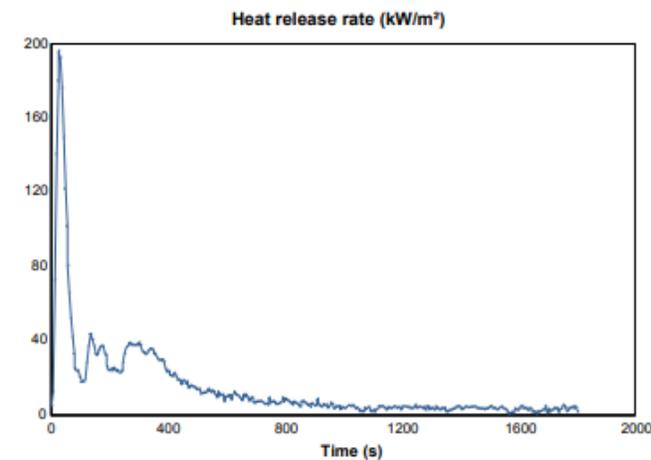
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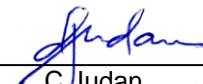
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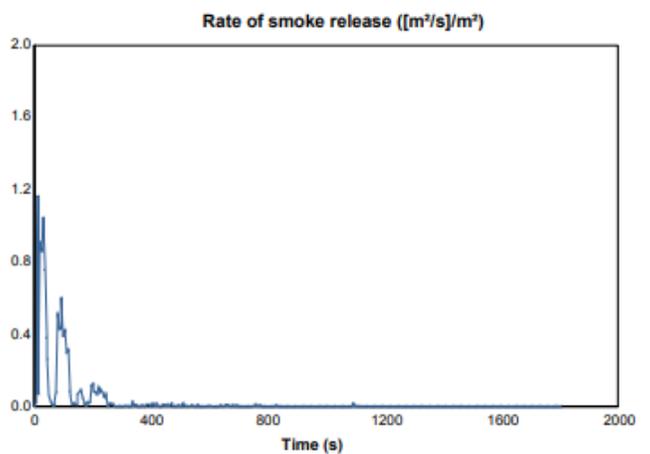
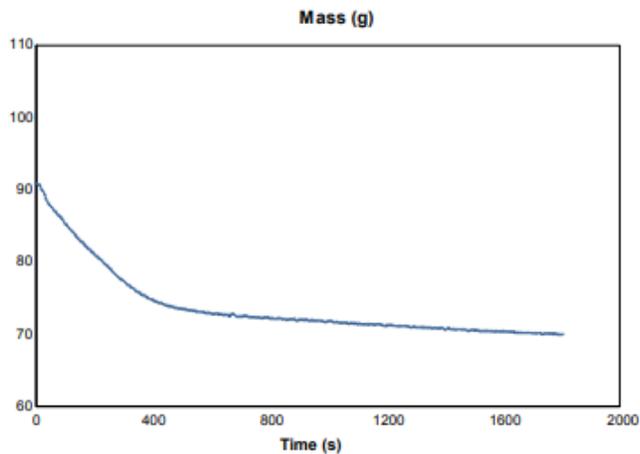
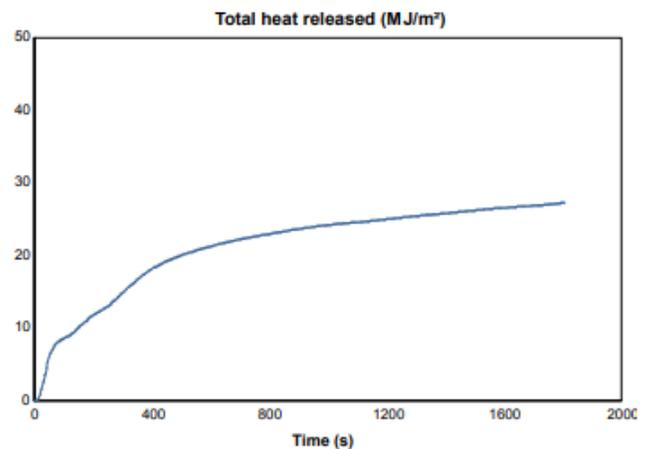
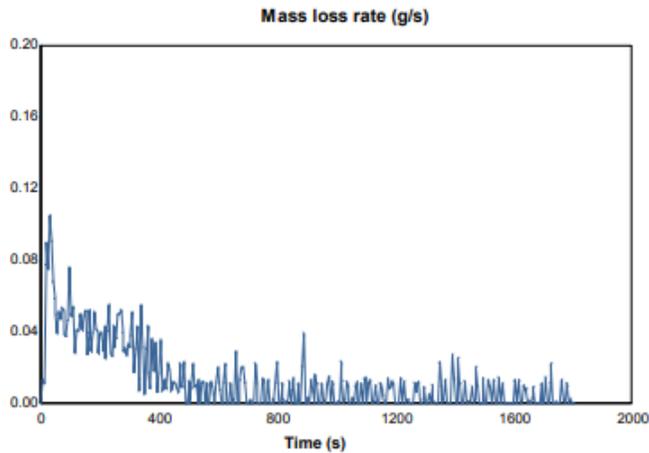
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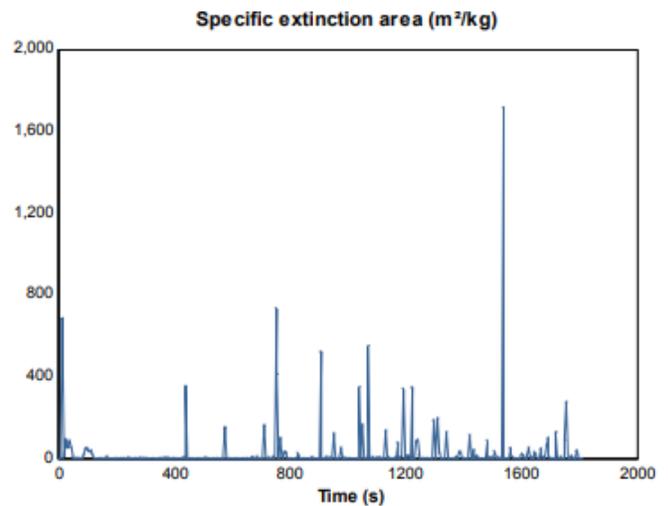
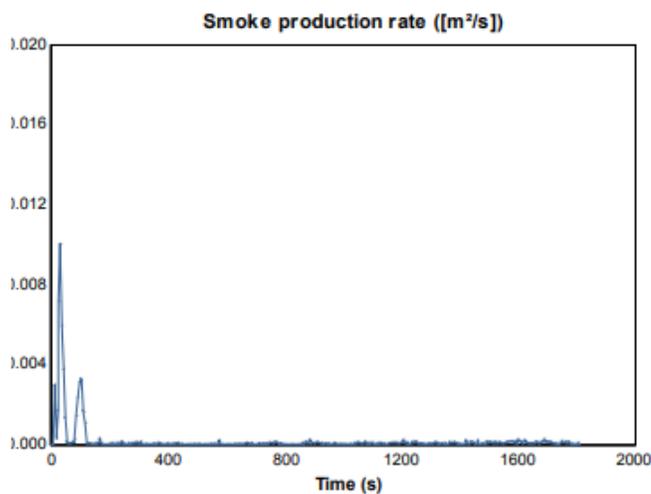
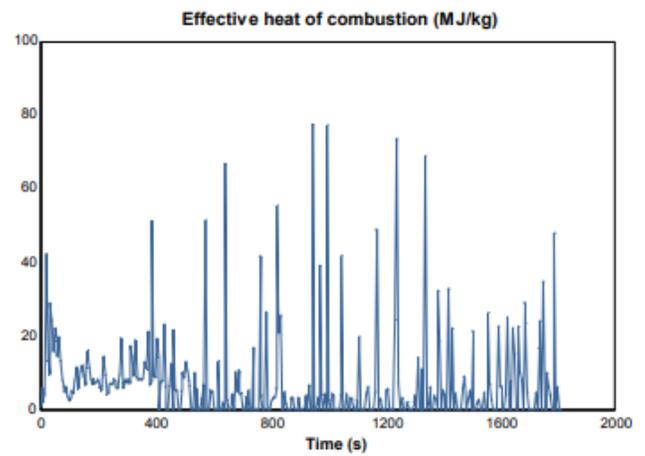
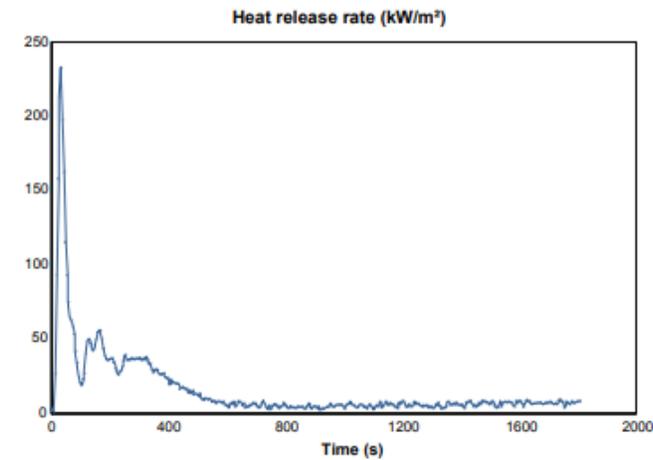
SAMPLE DESCRIPTION:  
Multi colour woven fabric – Traverse  
Nominal Composition – 76% Wool 24% Nylon  
Nominal Weight – 726g lineal metre  
End Use – Upholstery, Panel

Client Order No.:

Client Reference:

13 of 14

Specimen : 6



**“THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED”**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory



C Judan  
Signatory

30/03/2020



## No. 1315724.3

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

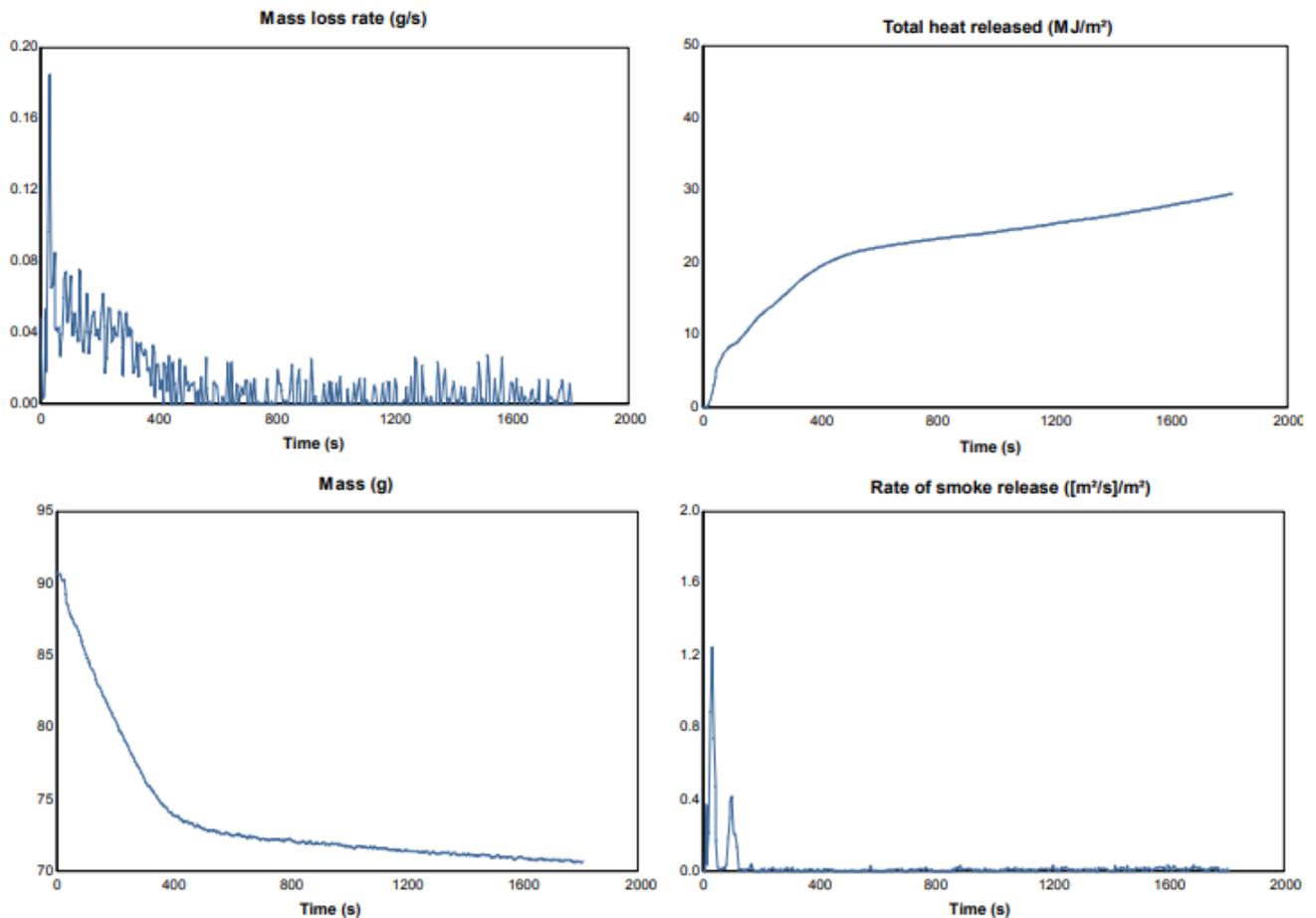
Date Received: 3.2.20

SAMPLE DESCRIPTION:  
Multi colour woven fabric – Traverse  
Nominal Composition – 76% Wool 24% Nylon  
Nominal Weight – 726g lineal metre  
End Use – Upholstery, Panel

Client Order No.:

Client Reference:

14 of 14



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L A Greer  
Signatory

  
C Judan  
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30/03/2020