



**No. 1129781.9**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell  
Auckland

Attn: Alicia Dann

SAMPLE RECEIVED FROM:  
At Work

SAMPLE DESCRIPTION:  
One grey woven fabric with  
knitted backing - Momentum,  
100% Polyester.

Date: 23.2.16

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	7.7	8.1	7.8	7.9 kW/m <sup>2</sup>
Group Number Classification*	2S	2S	2S	
(* In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				
Average Specific Extinction Area*	77.4	84.3	76.7	79.5 m <sup>2</sup> /kg
(* According to ISO 5660.2-2002)				

Test Orientation: Horizontal

	Specimens			
	1	2	3	Mean
Irradiance	50	50	50	50 kW/m <sup>2</sup>
Exhaust Flow Rate	24	24	24	24 L/sec.
Time to Sustained Flaming	34	35	34	34 sec.
Test Duration	1834	1835	1834	1834 sec.

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L A Greer  
Signatory

  
C Judan  
Signatory

11/03/2016

**New Zealand Wool Testing Authority Ltd**

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	Specimens			Mean
	1	2	3	
Peak Heat Release After Ignition	272.6	275.6	294.3	280.8 kW/m <sup>2</sup>
Average Heat at 60 s	137.8	137.1	139.5	138.1 kW/m <sup>2</sup>
Average Heat at 180 s	59.4	59.2	59.9	59.5 kW/m <sup>2</sup>
Average Heat at 300 s	37.5	37.3	37.2	37.3 kW/m <sup>2</sup>
Total Heat Released	13.9	14.6	14.0	14.2 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	5.8	6.0	6.1	6.0 MJ/kg
Initial Thickness	12.0	12.0	12.0	12.0 mm
Initial Mass	67.3	67.6	66.2	67.0 g
Mass Remaining	47.6	47.5	47.2	47.4 g
Mass Percentage Pyrolysed	29.3	29.8	28.7	29.3%
Mass Loss	19.7	20.1	19.0	19.6 g
Average Rate of Mass Loss	1.3	1.3	1.3	1.3 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 10mm thick plasterboard 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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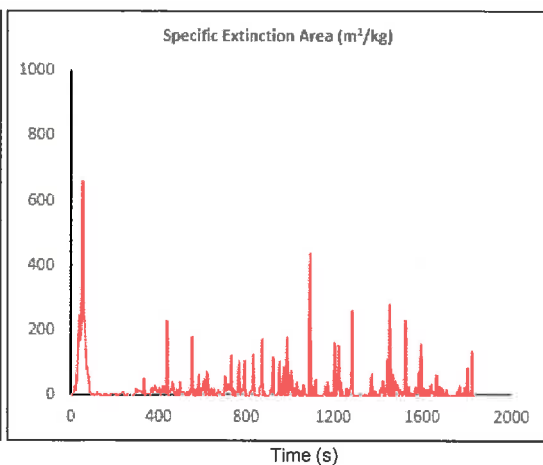
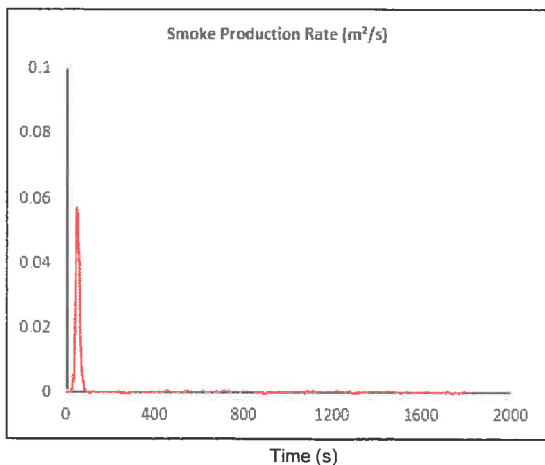
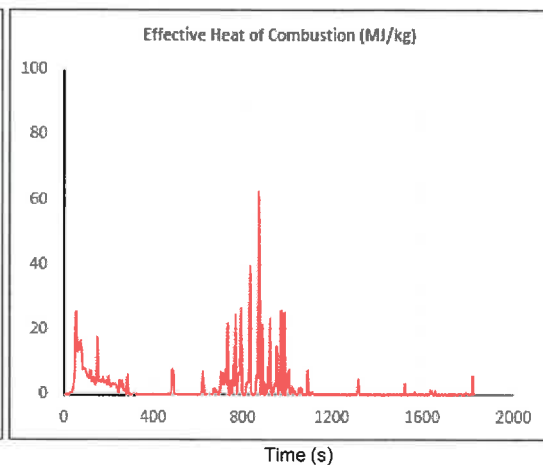
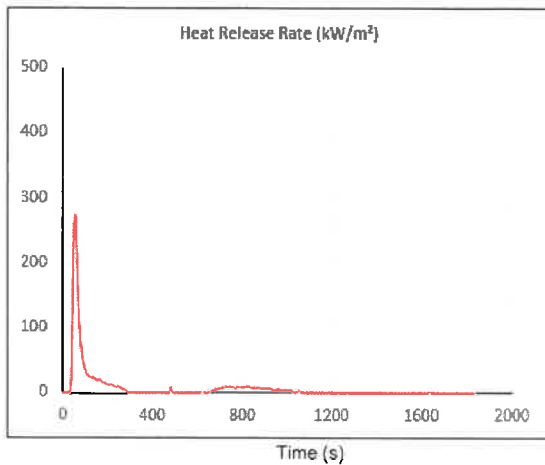
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## Specimen 1



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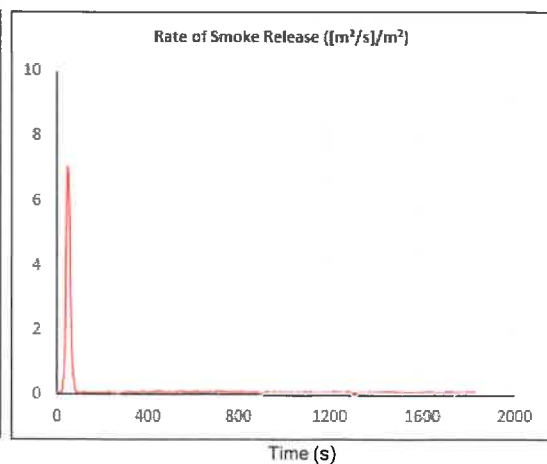
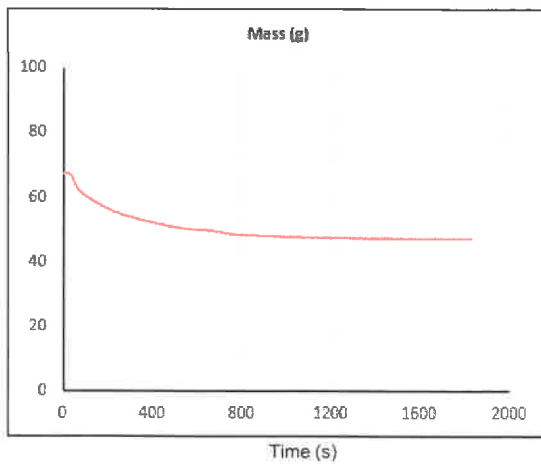
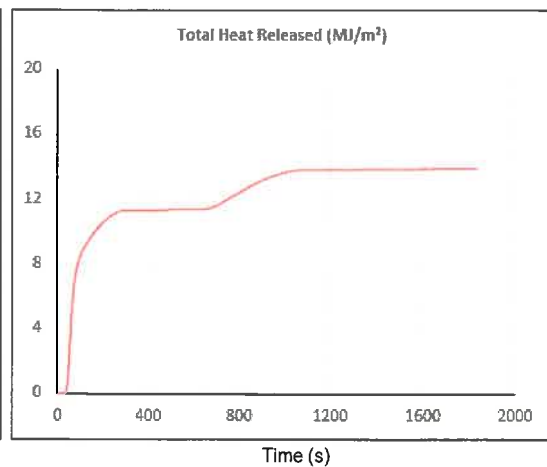
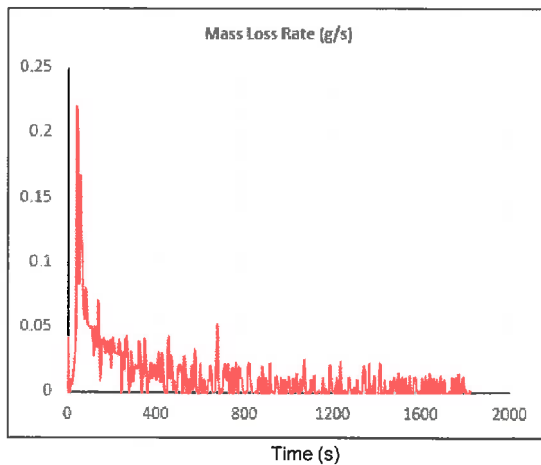
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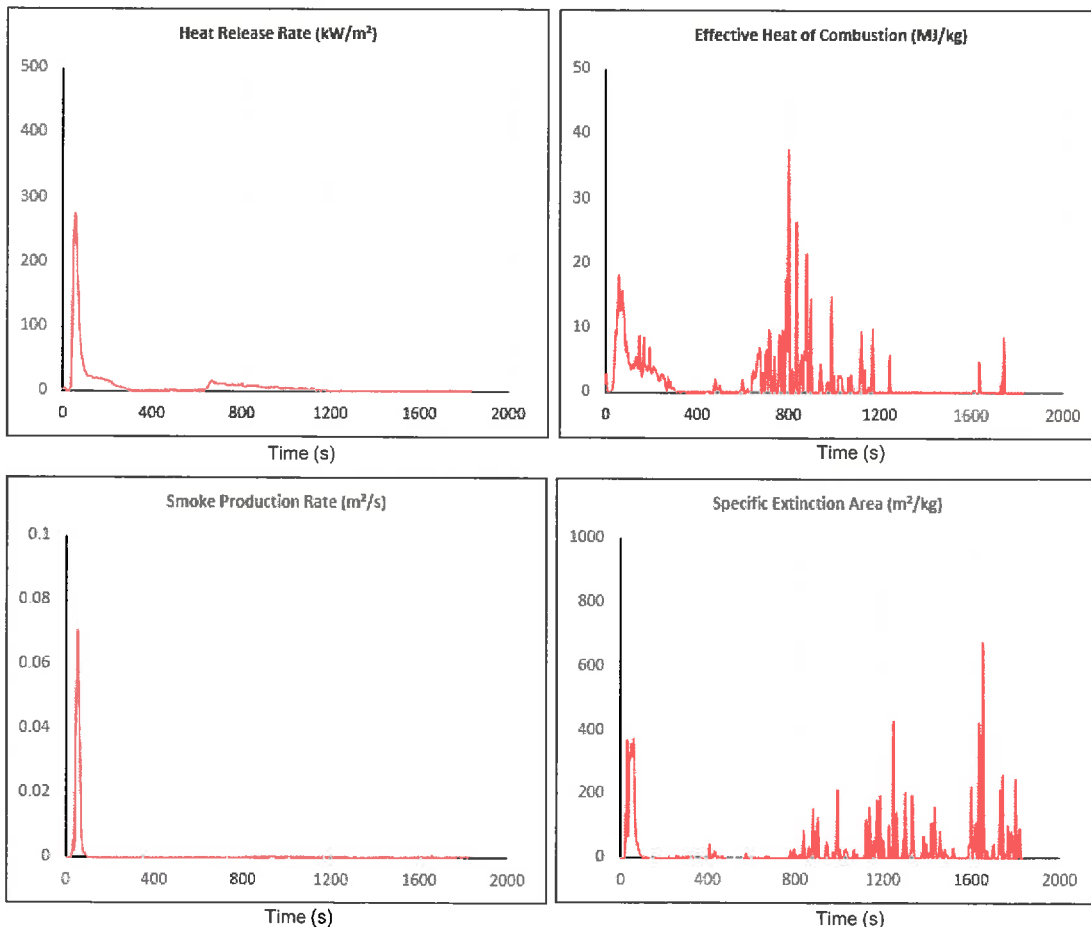
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## Specimen 2



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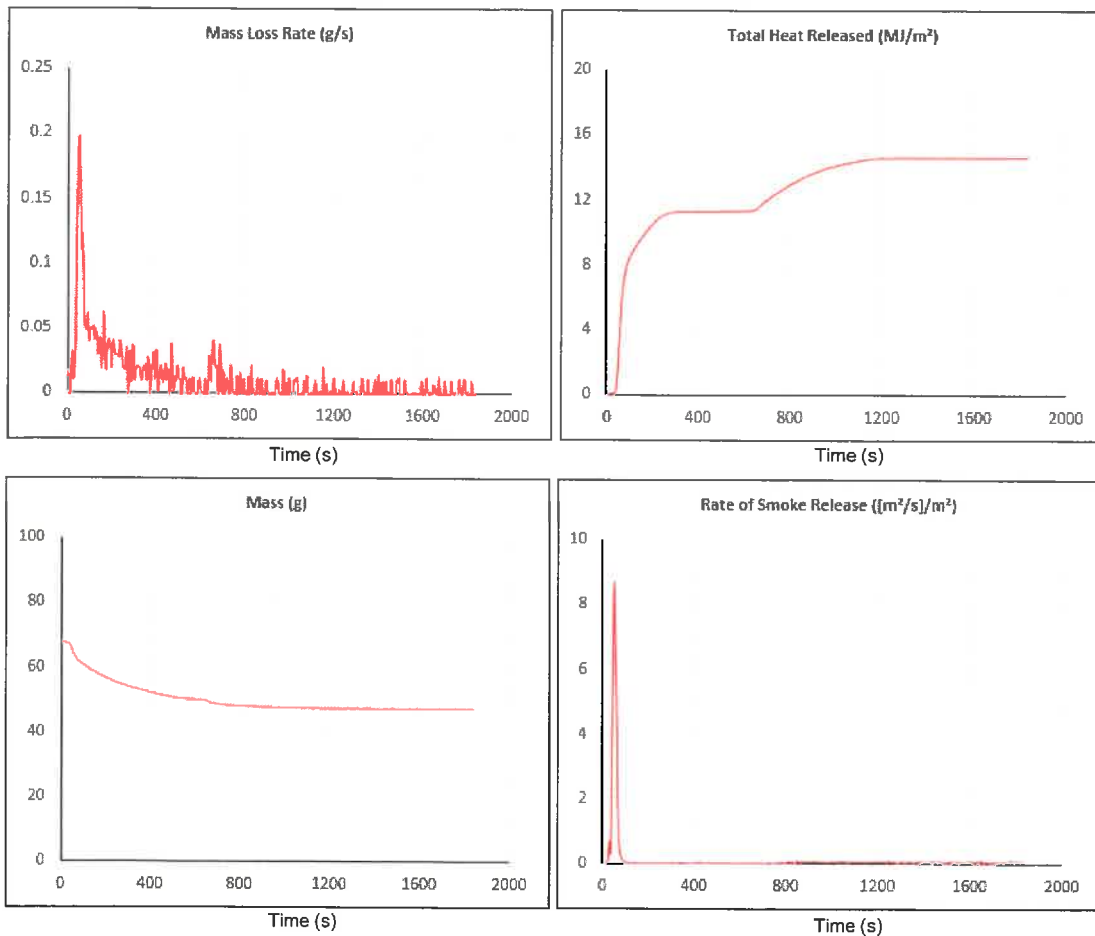
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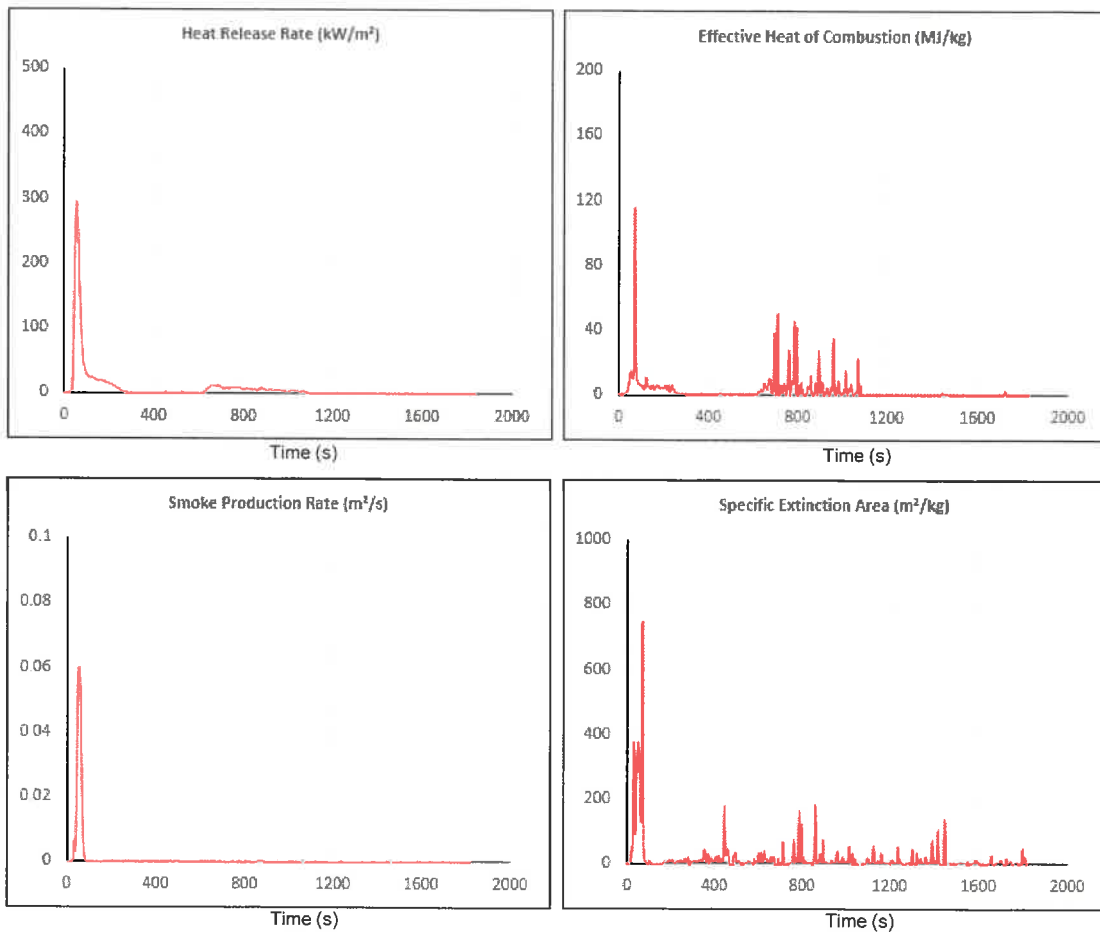
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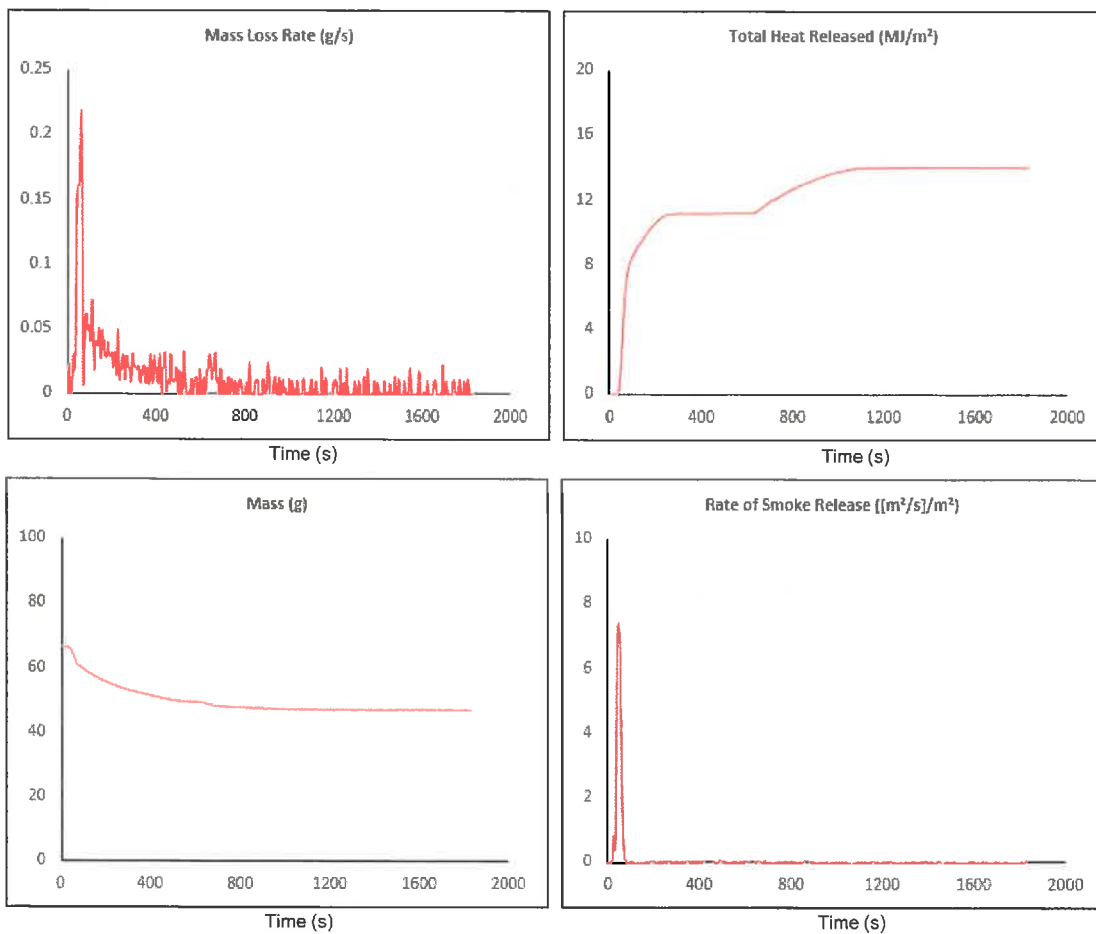
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