



No. 1490353.8B

(Please quote this number in all correspondence)

CLIENT:
Warwick Fabrics Ltd.
PO Box 100-721
NSMC, Auckland

Attn.: Jessica McLellan

SAMPLE RECEIVED FROM:
Warwick Fabrics Ltd.

SAMPLE DESCRIPTION:
Brown upholstery fabric – Felix Bark
Nominal Composition – 100% Polyester
Nominal Weight – 374gsm

Date Received: 24.11.23

Client Order No.:

Client Reference:

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**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. 23-004890).

	Specimens			Mean
	1	2	3	
Average Heat Release Rate	13.4	17.2	7.2	12.6 kW/m ²
Average Specific Extinction Area	77.9	69.7	86.4	78.0 m ² /kg

Group Number Classification **2S**
(In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)

Test Orientation: Horizontal

	Specimens			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 /sec.
Time to Sustained Flaming	62	57	72	64 sec.
Test Duration	1862	1857	1872	1864 sec.
Peak Heat Release After Ignition	312.5	342.0	216.6	290.4 kW/m ²
Average Heat at 180 s	62.8	70.3	61.4	64.8 kW/m ²
Average Heat at 300 s	41.6	46.4	39.5	42.5 kW/m ²
Total Heat Released	24.0	30.9	14.2	23.1 MJ/m ²
Ave. Effective Heat of Combustion	10.8	13.8	5.9	10.2 MJ/kg
Initial Thickness	12	12	12	12 mm
Initial Mass	63.3	63.4	65.1	63.9 g
Mass at Sustained Flaming	62.3	62.8	64.1	63.1 g
Mass Remaining	45.0	44.9	47.0	45.6 g
Mass Loss	2260.3	2281.7	2231.5	2257.8 g/m ²
Average Rate of Mass Loss	1.2	1.2	1.2	1.2 g/m ² .s

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Total Smoke Production (non-flaming phase)	8.0	6.3	13.2	9.2 m ² /m ²
Total Smoke Production (flaming phase)	183.7	164.0	194.5	180.7 m ² /m ²
Total Smoke Production (non flaming & flaming phase)	191.7	170.3	207.7	189.9 m ² /m ²
C-Factor (Calibration Constant)	0.040759	0.040759	0.040759	-

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.

Samples were loose laid onto a substrate of 10mm thick plasterboard 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.

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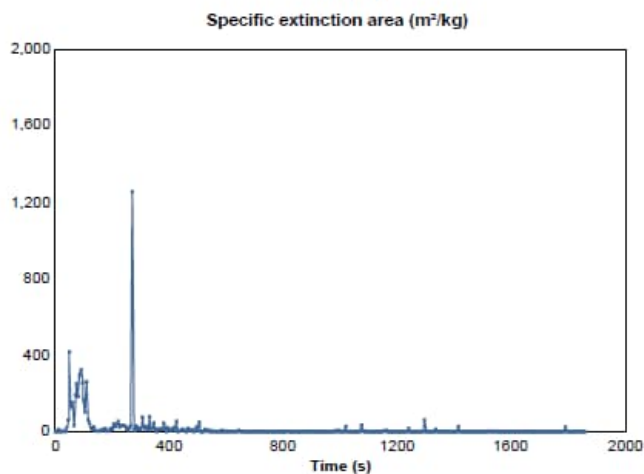
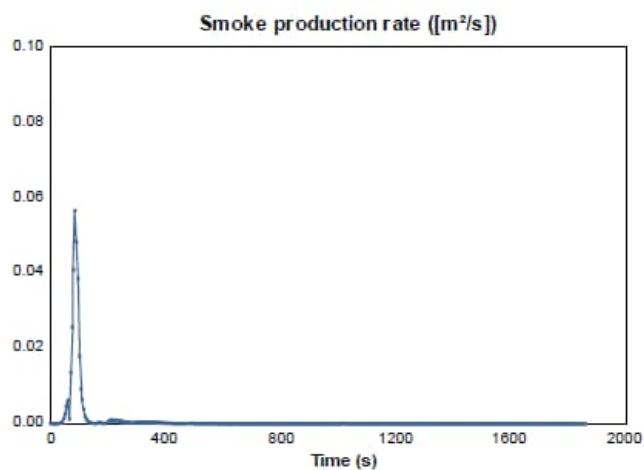
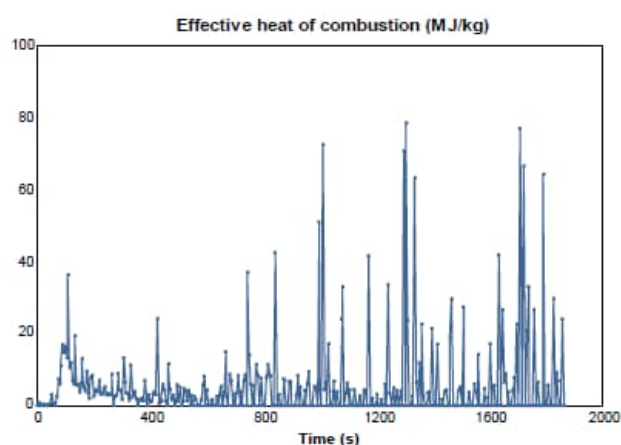
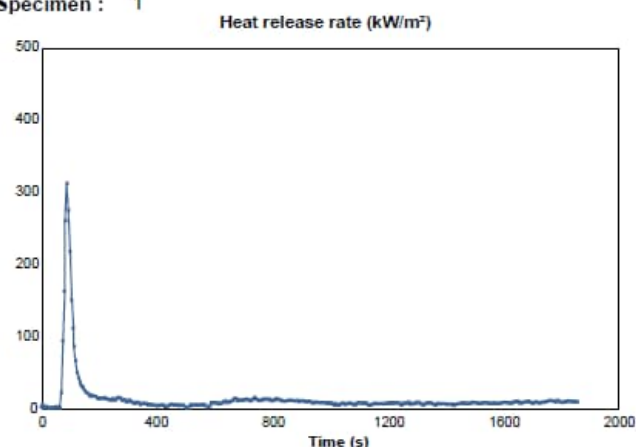
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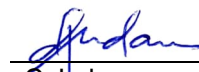
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Specimen : 1



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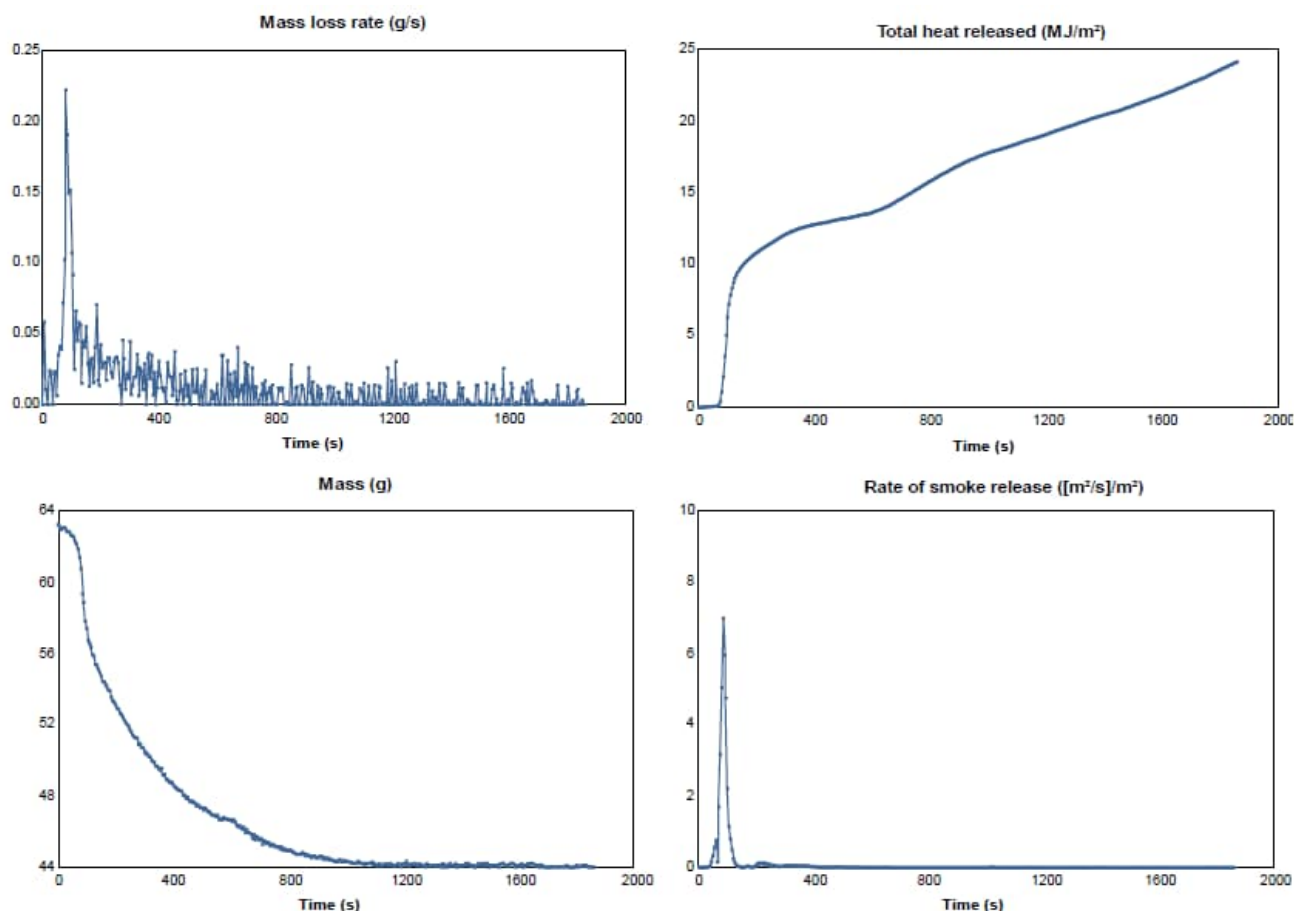
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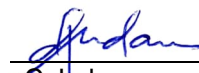
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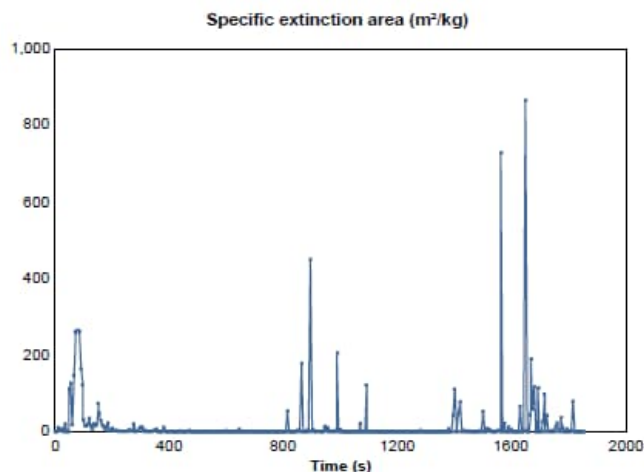
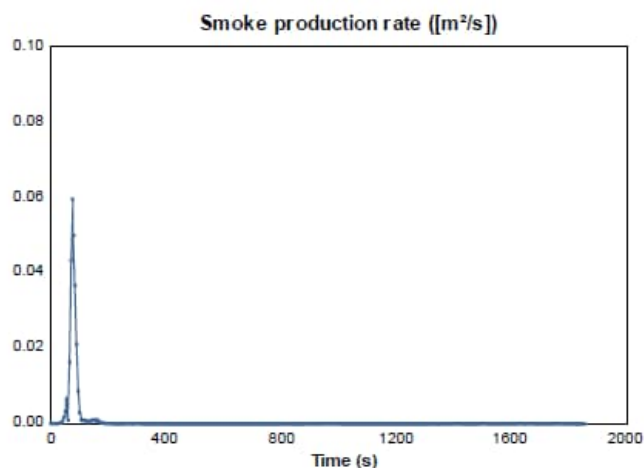
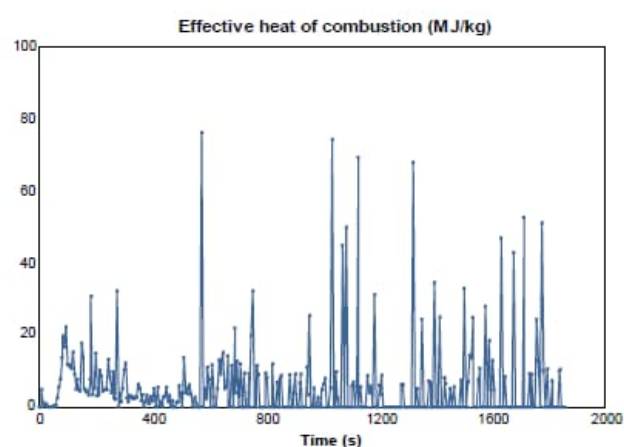
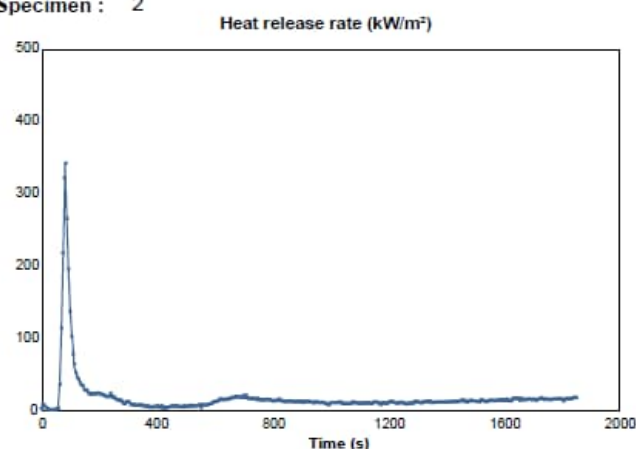
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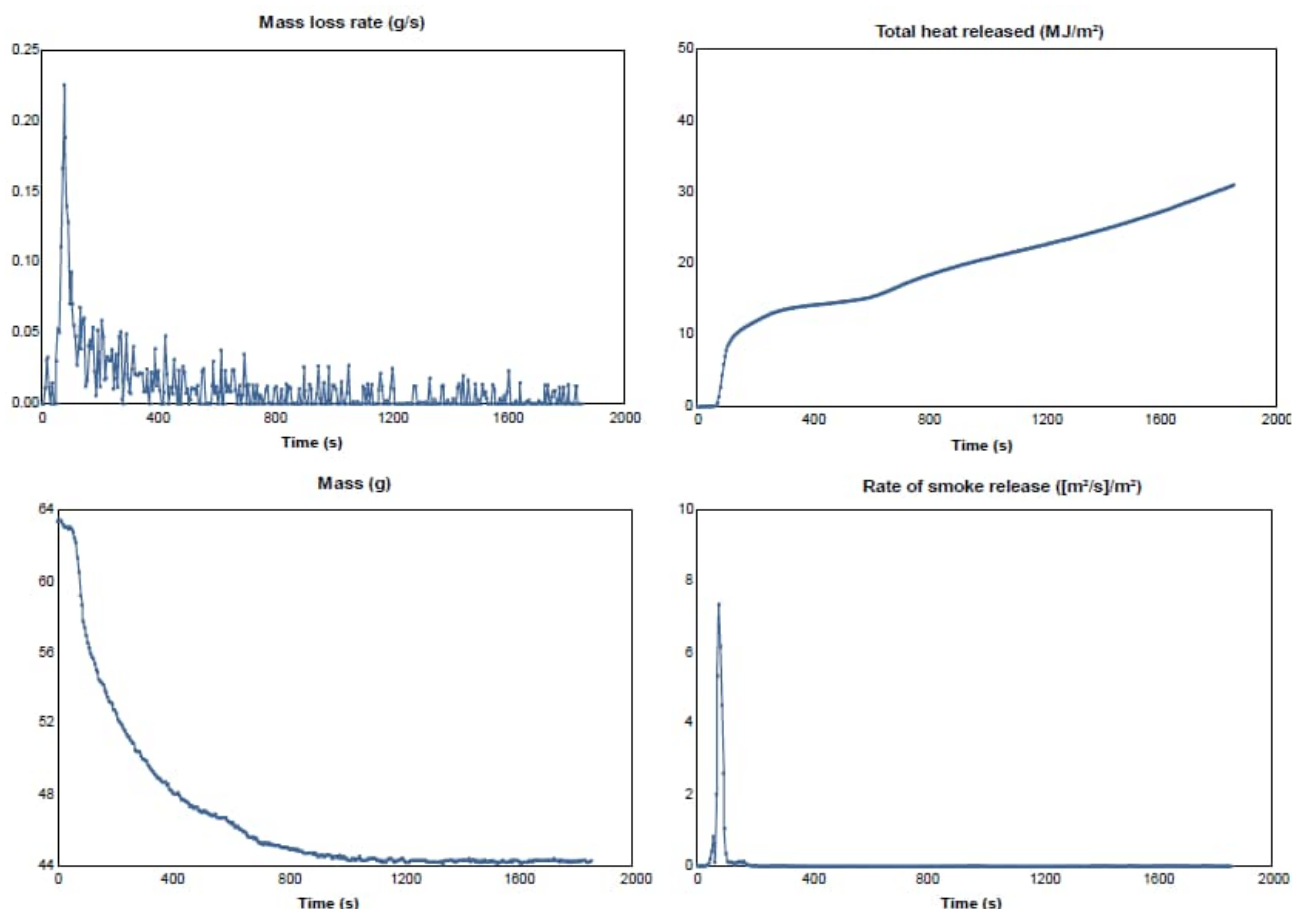
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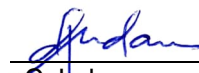
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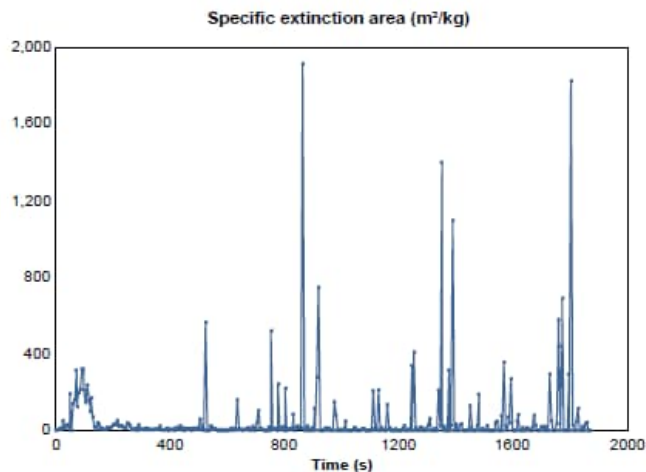
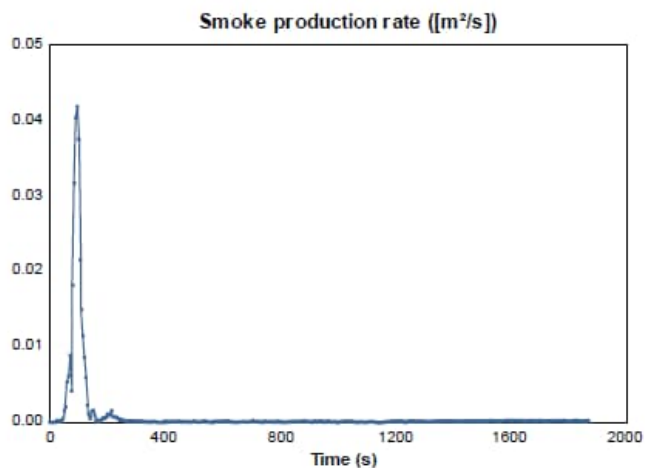
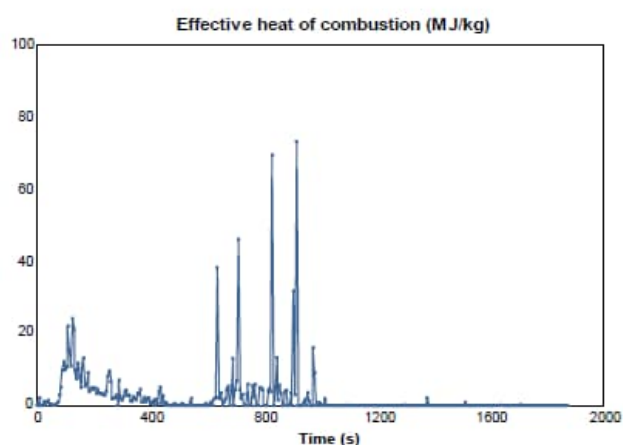
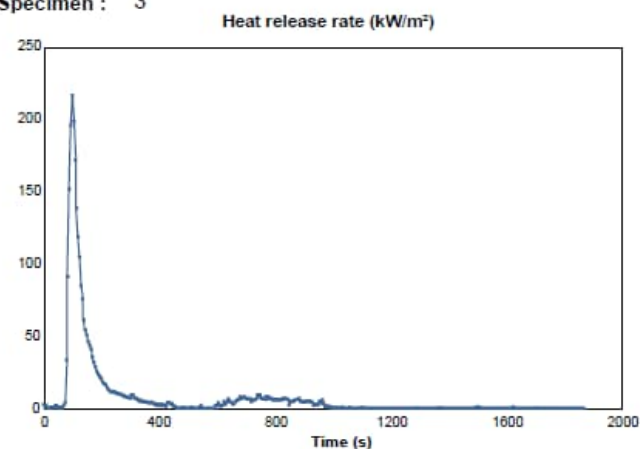
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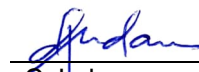
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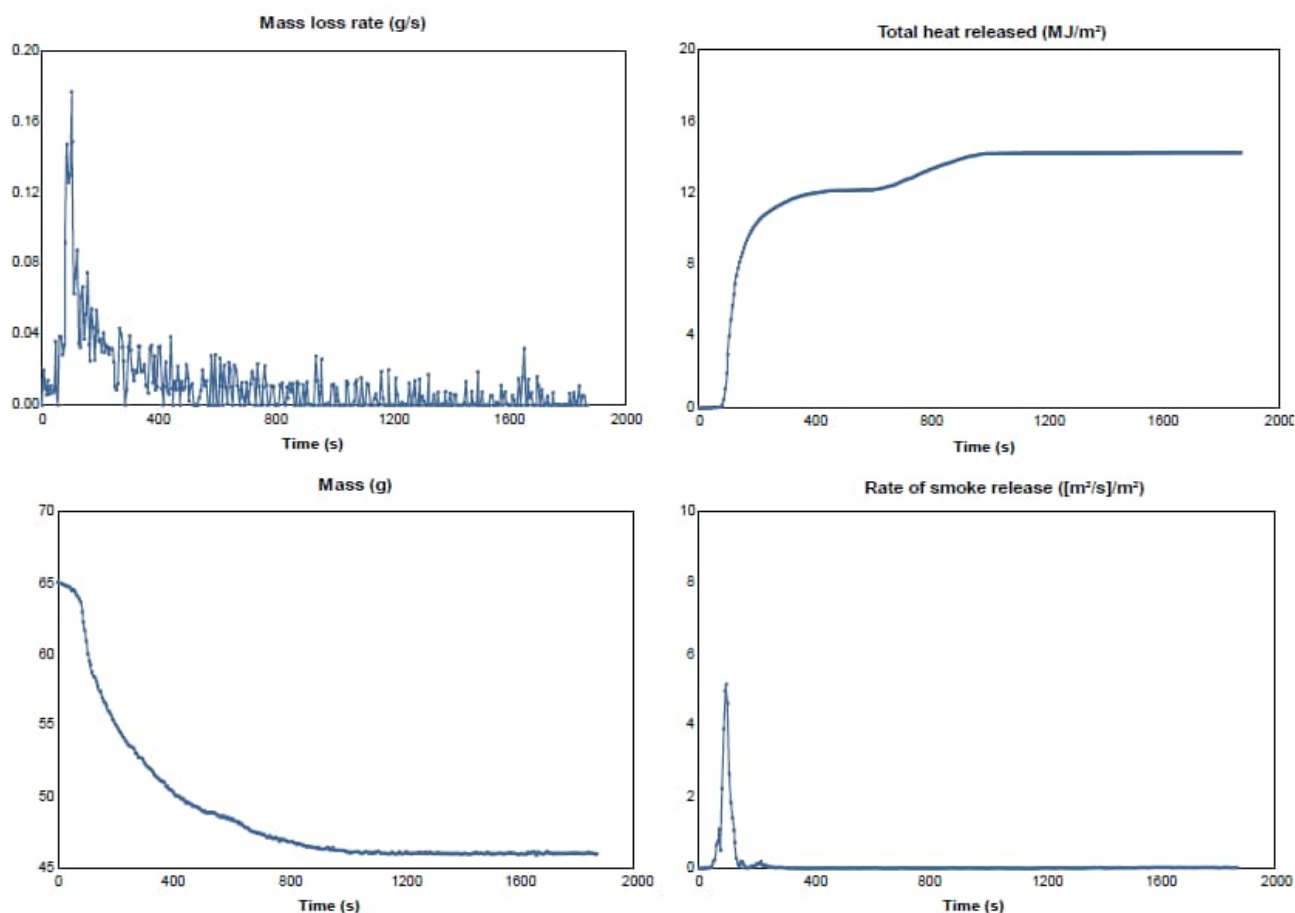
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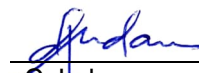
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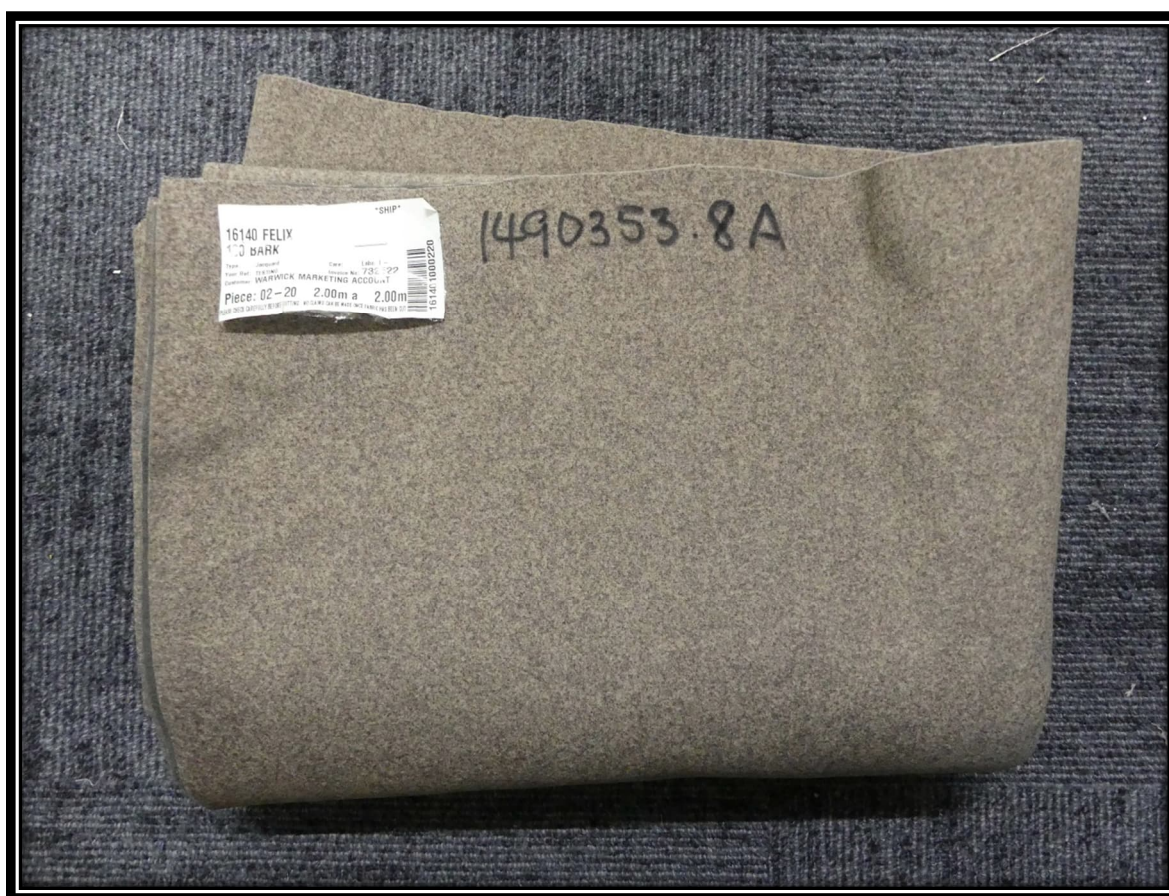
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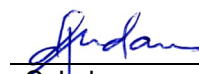
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