

(Please quote this number in all correspondence)

CLIENT:

At Work

SAMPLE RECEIVED FROM: At Work

Date Received:

19.3.19

PO Box 37 378

Parnell, Auckland

SAMPLE DESCRIPTION:

Blue/green woven fabric - Armadillo

Nominal Composition - 79% Wool 11% Polyamide 10% Flax

Nominal Weight - 515g per lineal metre End Use - Upholstery & Screen Use

Client Order No.:

Client Reference:

1 of 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)

Note: This test was sub-contracted (test number 19-001519).

	Specimens			
	1	2	3	Mean
Average Heat Release	13.7	13.6	14.6	14.0 kW/m ²
Average Specific Extinction Area	30.2	73.1	66.4	56.6 m ² /kg
Group Number Classification				3

(In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)

Test Orientation: Horizontal

		Specimens		
	1	2	3	Mean
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	17	15	19	17 sec.
Test Duration	1817	1815	1819	1817 sec.
Peak Heat Release After Ignition	196.4	200.2	219.5	205.4 kW/m ²
Average Heat at 180 s	51.5	55.6	57.2	54.8 kW/m ²
Average Heat at 300 s	37.0	41.4	43.8	40.7 kW/m ²
Total Heat Released	24.7	24.5	27.0	25.4 MJ/m ²
Ave. Effective Heat of Combustion	9.5	23.2	27.7	20.1 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	96.5	74.2	73.6	81.4 g
Mass at Sustained Flaming	96.3	73.9	73.0	81.1 g
Mass Remaining	75.5	65.7	65.6	68.9 g
Mass Loss	2593.3	1055.4	990.4	1546.4 g/m ²
Average Rate of Mass Loss	1.4	0.6	0.5	0.8 g/m ² .s

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L A Greer Signatory

C Judan Signatory

08/05/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065 Ahuriri, Napier 4144, New Zealand



No. 1272392.0

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Total Smoke Production (non-flaming phase)	2.4	4.2	5.5	4.0 m ² /m ²
Total Smoke Production	109.8	77.3	71.8	86.3 m ² /m ²
(flaming phase) Total Smoke Production	112.2	81.5	77.3	90.3 m ² /m ²
(non flaming & flaming phase) Specimen Surface Area	0.00810	0.00810	0.00810	-
C-Factor (Calibration Constant)	0.03983	0.03983	0.03983	<i>⊈</i> ₹

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 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 intumescing sample within the sample holder.

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

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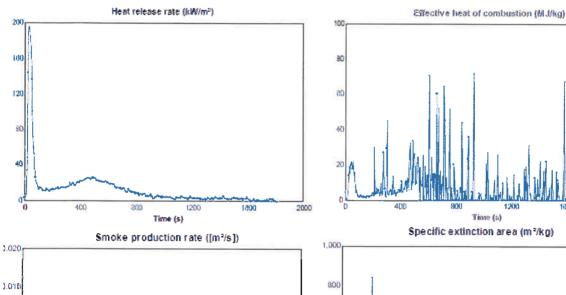
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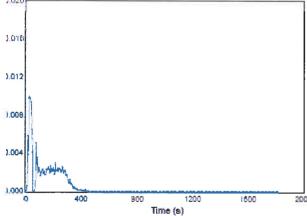
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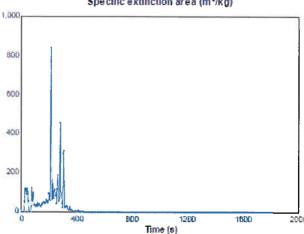
Specimen: 1

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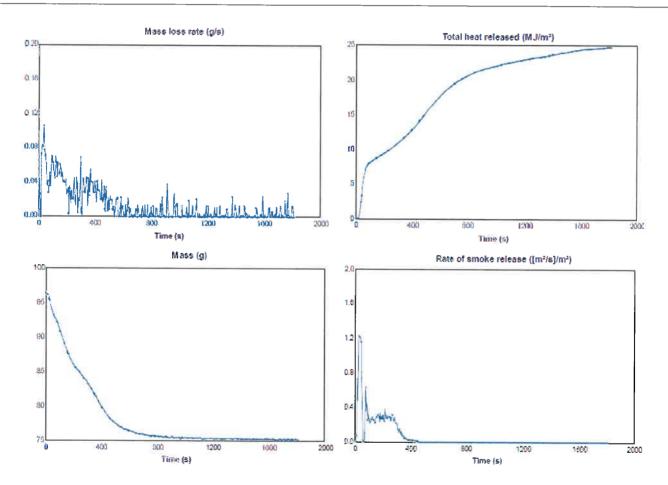
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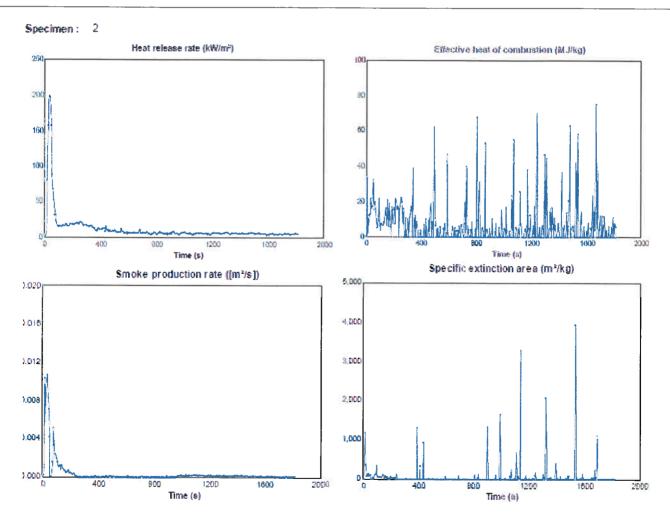
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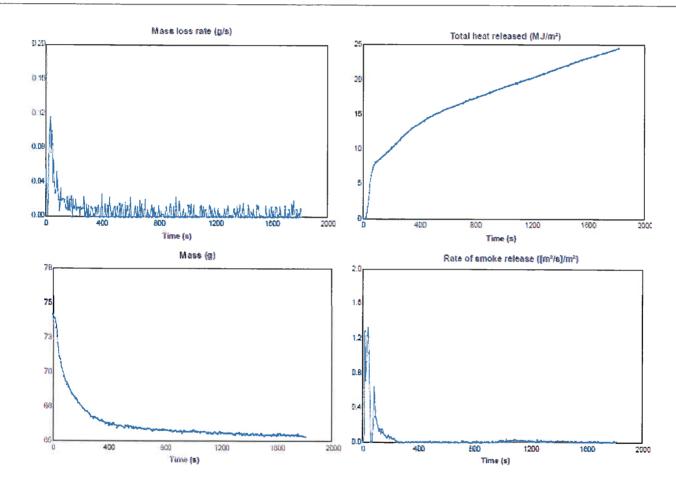
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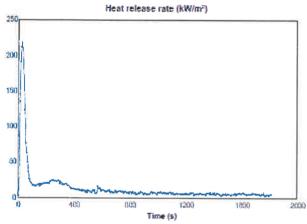
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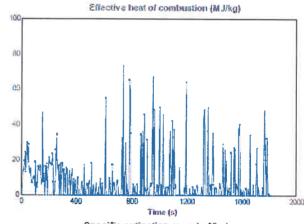
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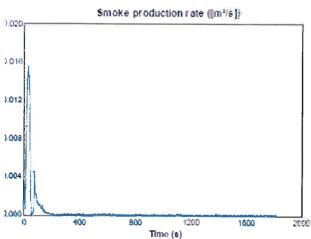
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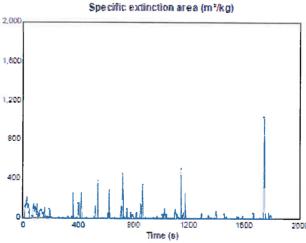
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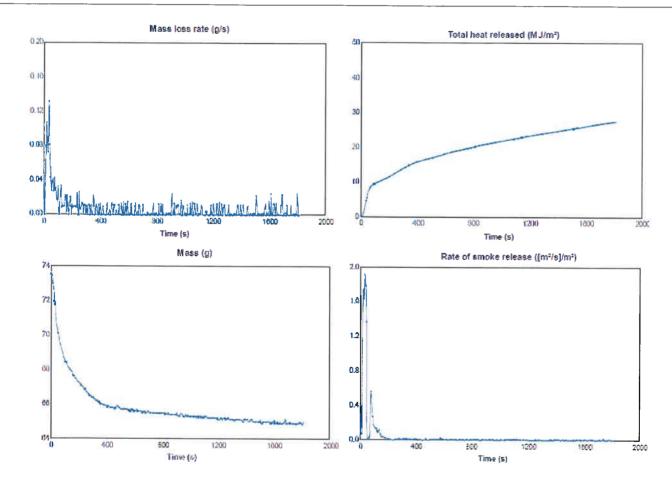
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