



## No. 1218241.6A

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 15.2.18

SAMPLE DESCRIPTION:  
Teal colour Synergy quilt sample.  
Nominal composition – 95% Wool 5% Polyamide with  
Polyurethane Foam & Polyester  
backing.  
Nominal weight – 700gsm  
End use – Panel & Upholstery

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)**

|                                                                                                                        | Specimens |      |      | Mean                    |
|------------------------------------------------------------------------------------------------------------------------|-----------|------|------|-------------------------|
|                                                                                                                        | 1         | 2    | 3    |                         |
| Average Heat Release                                                                                                   | 15.0      | 14.9 | 14.5 | 14.8 kW/m <sup>2</sup>  |
| Average Specific Extinction Area                                                                                       | 38.8      | 24.6 | 12.9 | 25.4 m <sup>2</sup> /kg |
| Group Number Classification<br>(In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A) |           |      |      | 3                       |

Test Orientation: Horizontal

|                                   | Specimens |       |       | Mean                    |
|-----------------------------------|-----------|-------|-------|-------------------------|
|                                   | 1         | 2     | 3     |                         |
| Irradiance                        | 50        | 50    | 50    | 50 kW/m <sup>2</sup>    |
| 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.               |
| Peak Heat Release After Ignition  | 153.2     | 138.6 | 137.6 | 143.1 kW/m <sup>2</sup> |
| Average Heat at 60 s              | 119.5     | 118.7 | 116.5 | 118.2 kW/m <sup>2</sup> |
| Average Heat at 180 s             | 66.8      | 69.4  | 66.5  | 67.6 kW/m <sup>2</sup>  |
| Average Heat at 300 s             | 53.8      | 54.3  | 54.3  | 54.1 kW/m <sup>2</sup>  |
| Total Heat Released               | 27.3      | 26.8  | 26.5  | 26.9 MJ/m <sup>2</sup>  |
| Ave. Effective Heat of Combustion | 9.5       | 10.2  | 9.2   | 9.6 MJ/kg               |
| Initial Thickness                 | 16.0      | 16.0  | 16.0  | 16.0 mm                 |
| Initial Mass                      | 95.6      | 94.7  | 94.2  | 94.8 g                  |
| Mass Remaining                    | 72.2      | 73.3  | 70.6  | 72.0 g                  |
| Mass Percentage Pyrolysed         | 24.4      | 22.6  | 25.1  | 24.0%                   |
| Mass Loss                         | 23.4      | 21.4  | 23.6  | 22.8 g                  |
| Average Rate of Mass Loss         | 1.6       | 1.5   | 1.6   | 1.5 g/m <sup>2</sup> .s |

**"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

05/03/2018

**New Zealand Wool Testing Authority Ltd**

Cnr Bridge & Lever Streets, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1218241.6A**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 15.2.18

SAMPLE DESCRIPTION:  
Teal colour Synergy quilt sample.  
Nominal composition – 95% Wool 5% Polyamide with  
Polyurethane Foam & Polyester  
backing.  
Nominal weight – 700gsm  
End use – Panel & Upholstery

Client Order No.:

Client Reference:

2 of 8

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 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.

**“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

05/03/2018

**New Zealand Wool Testing Authority Ltd**

Cnr Bridge & Lever Streets, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1218241.6A**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 15.2.18

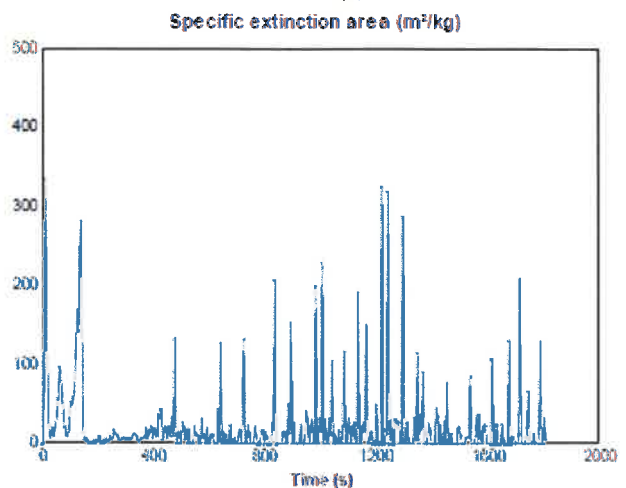
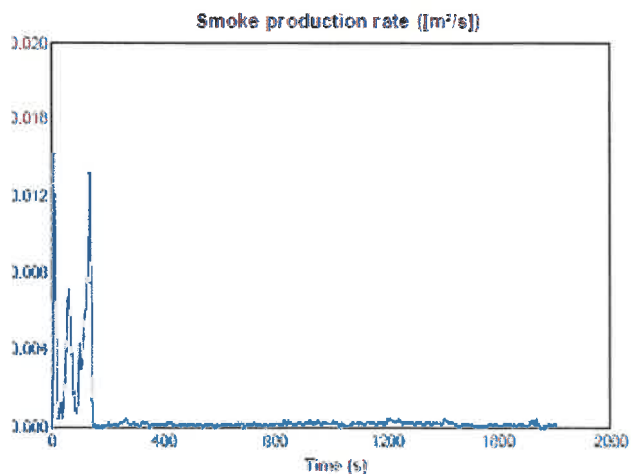
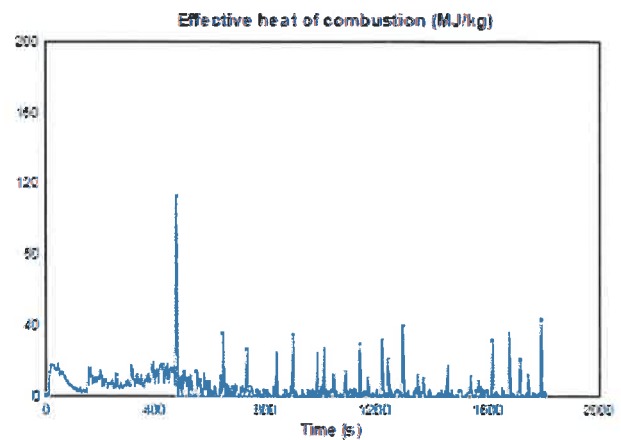
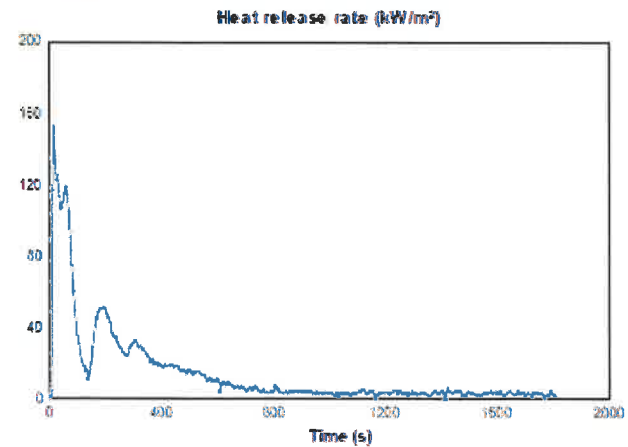
SAMPLE DESCRIPTION:  
Teal colour Synergy quilt sample.  
Nominal composition – 95% Wool 5% Polyamide with  
Polyurethane Foam & Polyester  
backing.  
Nominal weight – 700gsm  
End use – Panel & Upholstery

Client Order No.:

Client Reference:

3 of 8

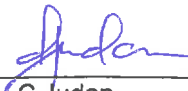
Specimen: 1



**"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

05/03/2018

New Zealand Wool Testing Authority Ltd

Cnr Bridge & Lever Streets, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1218241.6A**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

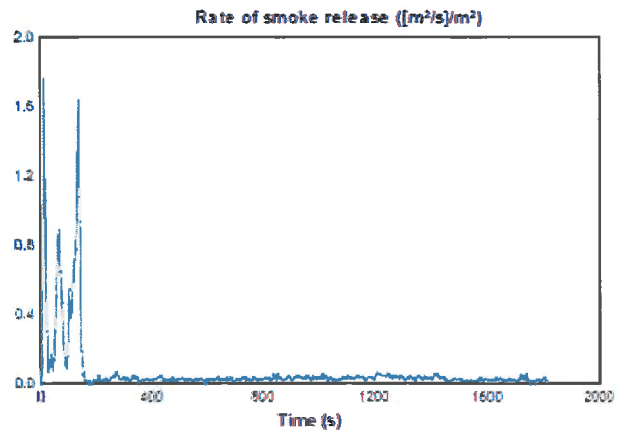
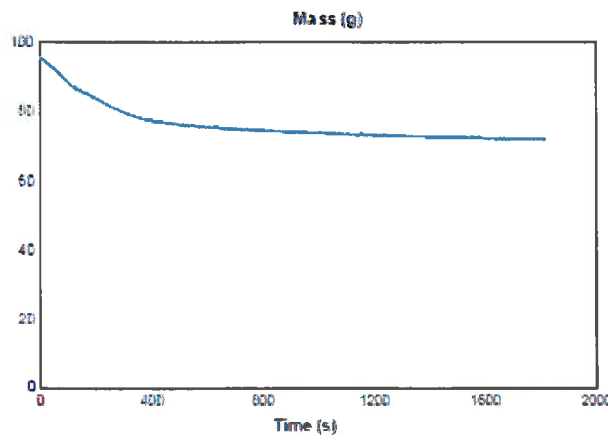
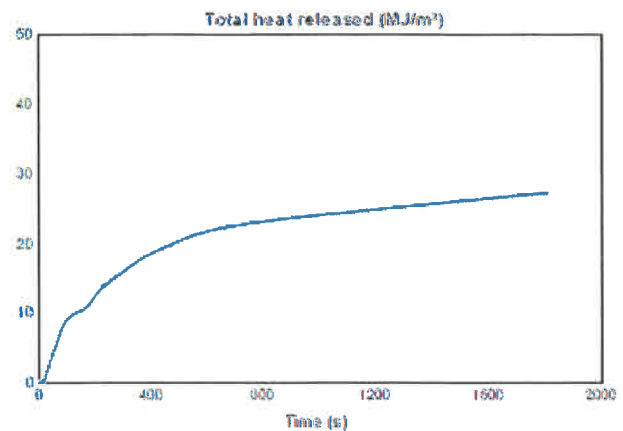
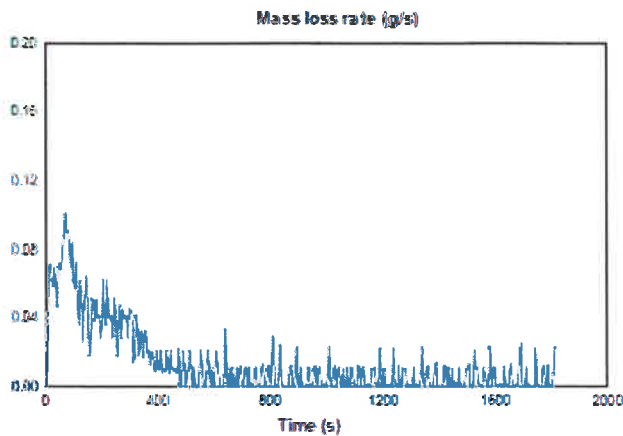
Date Received: 15.2.18

SAMPLE DESCRIPTION:  
Teal colour Synergy quilt sample.  
Nominal composition – 95% Wool 5% Polyamide with  
Polyurethane Foam & Polyester  
backing.  
Nominal weight – 700gsm  
End use – Panel & Upholstery

Client Order No.:

Client Reference:

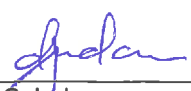
4 of 8



**“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

05/03/2018

**New Zealand Wool Testing Authority Ltd**

Cnr Bridge & Lever Streets, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1218241.6A**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 15.2.18

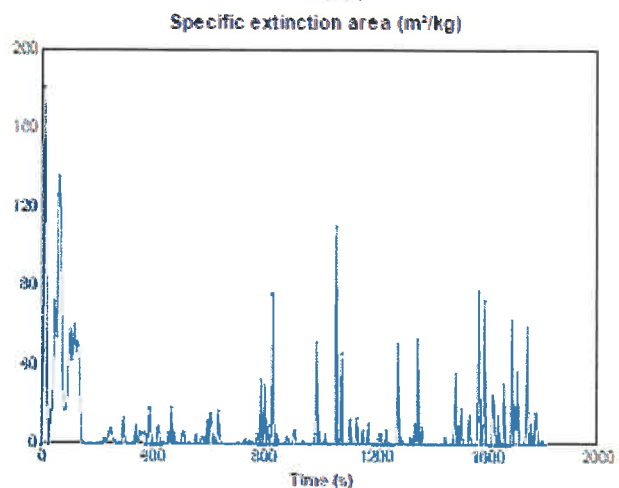
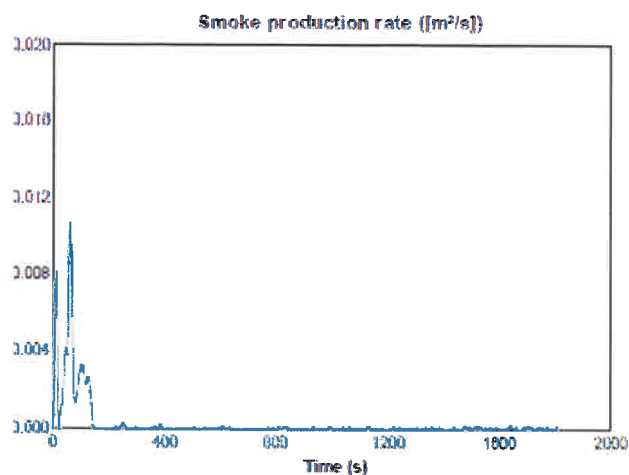
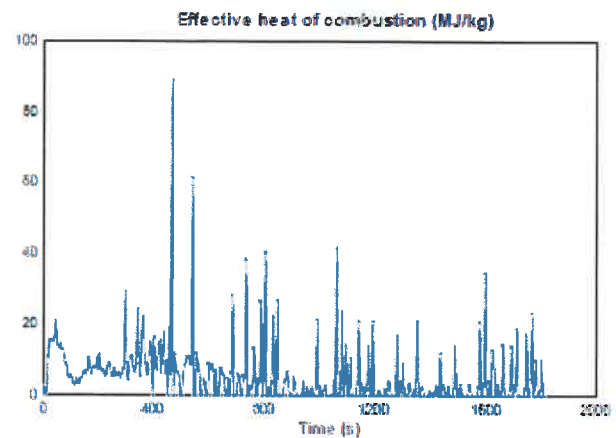
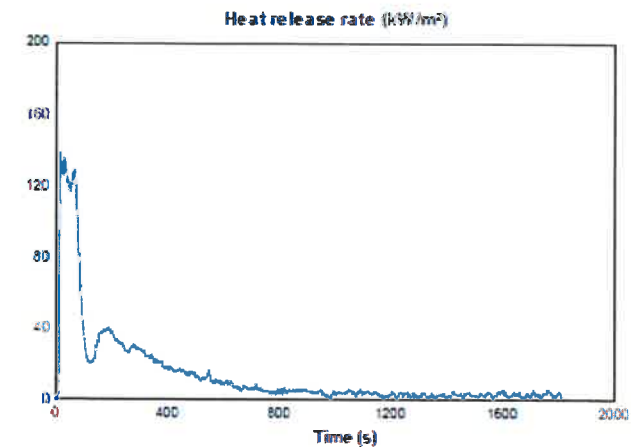
SAMPLE DESCRIPTION:  
Teal colour Synergy quilt sample.  
Nominal composition – 95% Wool 5% Polyamide with  
Polyurethane Foam & Polyester  
backing.  
Nominal weight – 700gsm  
End use – Panel & Upholstery

Client Order No.:

Client Reference:


5 of 8

Specimen : 2



**"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

05/03/2018



**No. 1218241.6A**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

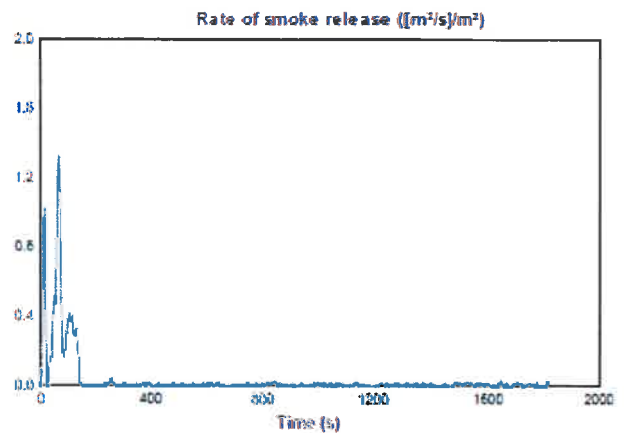
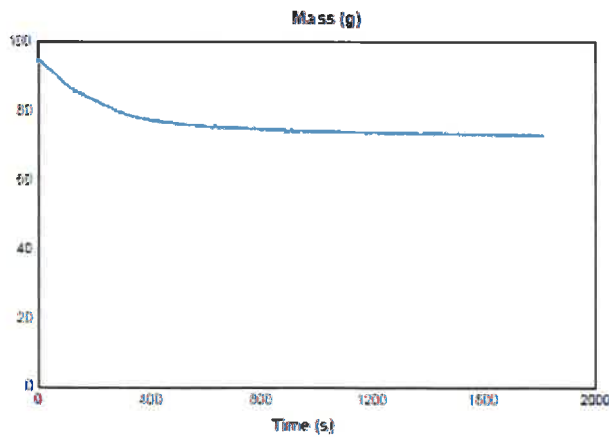
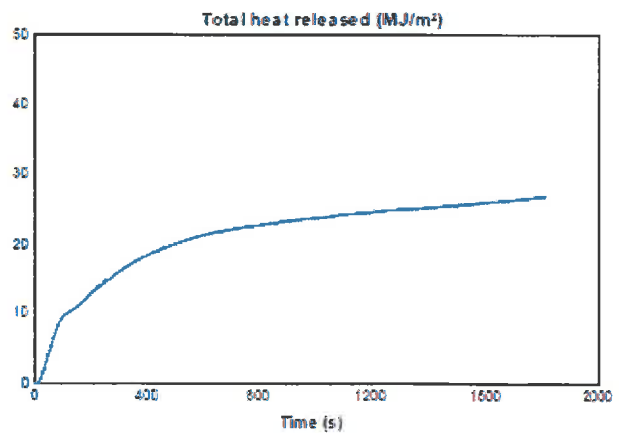
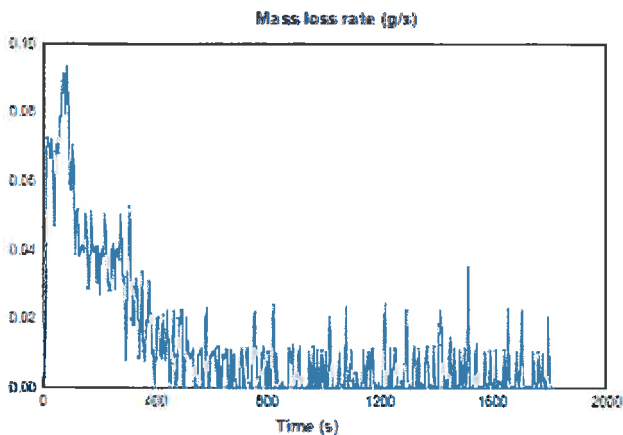
Date Received: 15.2.18

SAMPLE DESCRIPTION:  
Teal colour Synergy quilt sample.  
Nominal composition – 95% Wool 5% Polyamide with  
Polyurethane Foam & Polyester  
backing.  
Nominal weight – 700gsm  
End use – Panel & Upholstery

Client Order No.:

Client Reference:

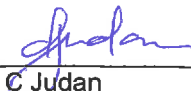
6 of 8



**“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

05/03/2018

New Zealand Wool Testing Authority Ltd

Cnr Bridge & Lever Streets, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



## No. 1218241.6A

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 15.2.18

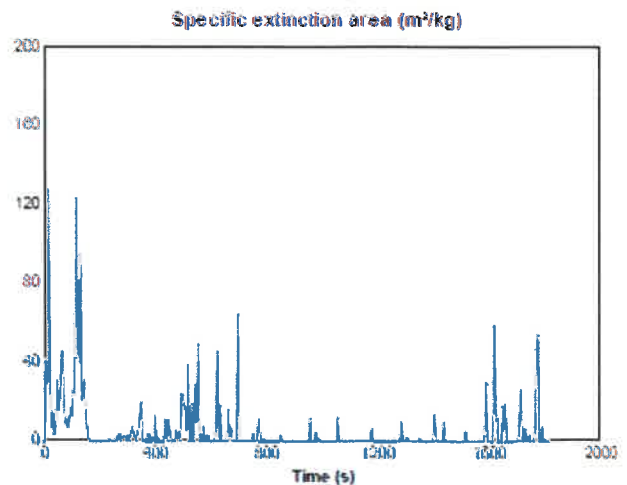
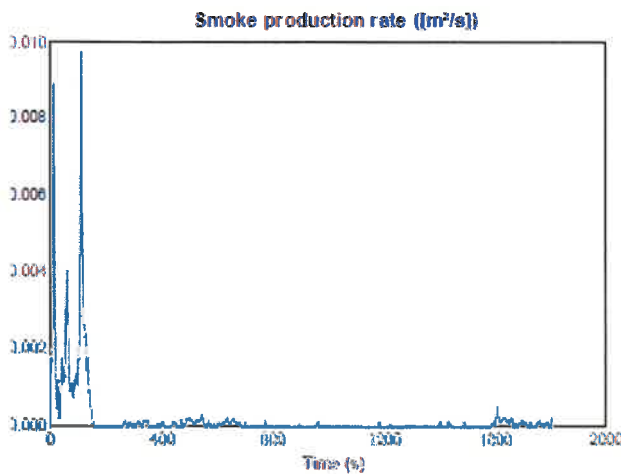
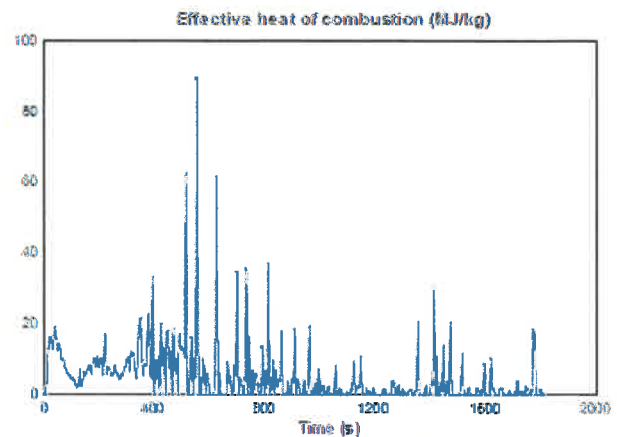
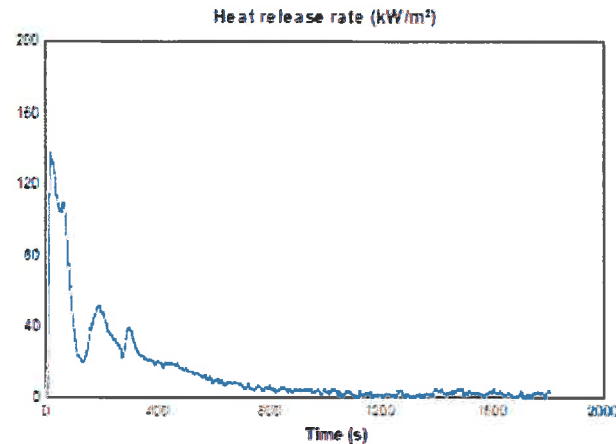
SAMPLE DESCRIPTION:  
Teal colour Synergy quilt sample.  
Nominal composition – 95% Wool 5% Polyamide with  
Polyurethane Foam & Polyester  
backing.  
Nominal weight – 700gsm  
End use – Panel & Upholstery

Client Order No.:

Client Reference:

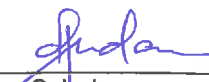
7 of 8

Specimen : 3



**"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

05/03/2018



**No. 1218241.6A**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

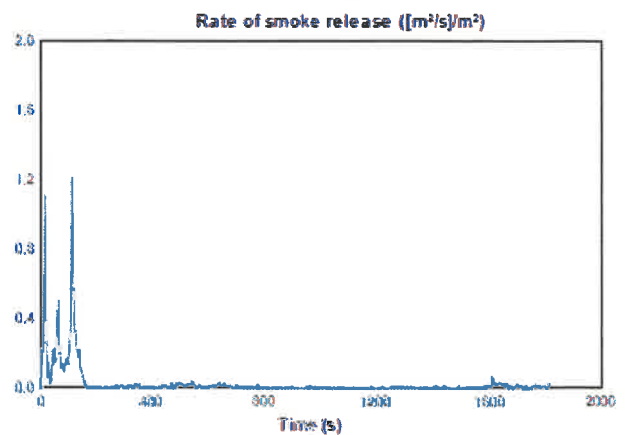
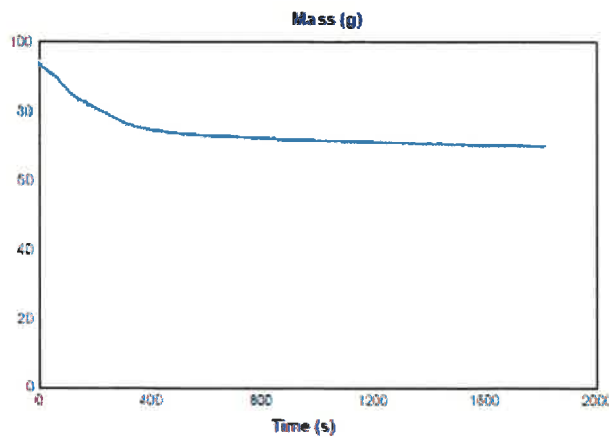
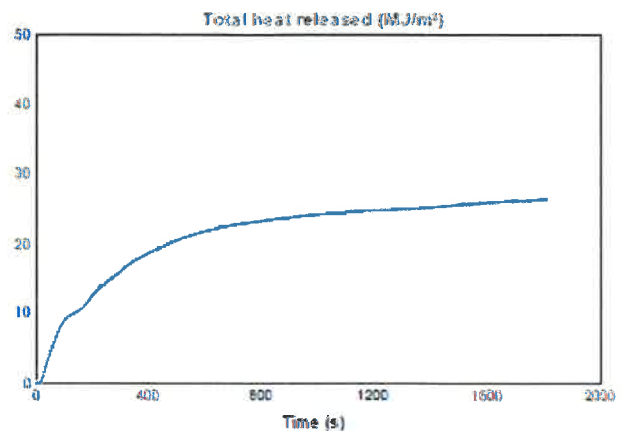
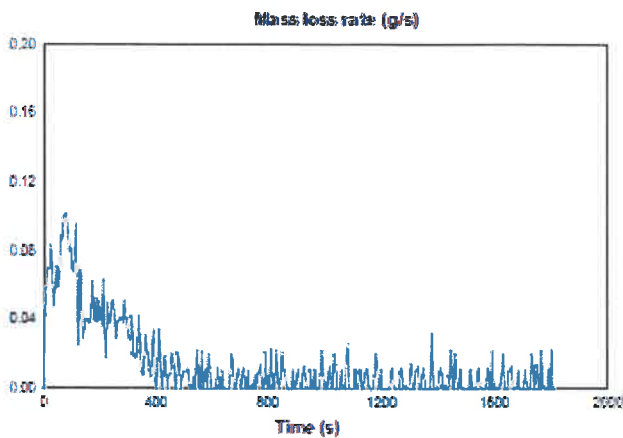
Date Received: 15.2.18

SAMPLE DESCRIPTION:  
Teal colour Synergy quilt sample.  
Nominal composition – 95% Wool 5% Polyamide with  
Polyurethane Foam & Polyester  
backing.  
Nominal weight – 700gsm  
End use – Panel & Upholstery

Client Order No.:

Client Reference:


8 of 8



**"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

05/03/2018

**New Zealand Wool Testing Authority Ltd**

Cnr Bridge & Lever Streets, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz