Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

<table>
<thead>
<tr>
<th>Specimens</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Heat Release</td>
<td>9.8</td>
<td>10.2</td>
<td>8.7</td>
<td>9.6 kW/m²</td>
</tr>
<tr>
<td>Group Number Classification*</td>
<td>2S</td>
<td>2S</td>
<td>2S</td>
<td></td>
</tr>
<tr>
<td>(* In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Specific Extinction Area*</td>
<td>16.2</td>
<td>18.7</td>
<td>35.4</td>
<td>23.4 m²/kg</td>
</tr>
<tr>
<td>(* According to ISO 5660.2-2002)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Test Orientation: Horizontal**

<table>
<thead>
<tr>
<th>Specimens</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irradiance</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50 kW/m²</td>
</tr>
<tr>
<td>Exhaust Flow Rate</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>24 L/sec.</td>
</tr>
<tr>
<td>Time to Sustained Flaming</td>
<td>12</td>
<td>10</td>
<td>11</td>
<td>11 sec.</td>
</tr>
<tr>
<td>Test Duration</td>
<td>1812</td>
<td>1810</td>
<td>1811</td>
<td>1811 sec.</td>
</tr>
</tbody>
</table>

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L A Greer  
Signatory  

C Judan  
Signatory  

10/12/2015
No. 1117988.4
(Please quote this number in all correspondence)

CLIENT: At Work
PO Box 37 378
Parnell
Auckland
Attn: Therese Ronaldo

SAMPLE RECEIVED FROM: At Work

SAMPLE DESCRIPTION:
One Synergy woven green fabric, 95% Wool 5% Polyamide
560 g/lineal metre,
End use – upholstery / wall panels

Client Order No.: 2/8

<table>
<thead>
<tr>
<th>Specimens</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Heat Release After Ignition</td>
<td>192.6</td>
<td>210.5</td>
<td>202.6</td>
<td>201.9 kW/m²</td>
</tr>
<tr>
<td>Average Heat at 60 s</td>
<td>88.0</td>
<td>99.8</td>
<td>93.4</td>
<td>93.7 kW/m²</td>
</tr>
<tr>
<td>Average Heat at 180 s</td>
<td>30.6</td>
<td>34.8</td>
<td>33.8</td>
<td>33.1 kW/m²</td>
</tr>
<tr>
<td>Average Heat at 300 s</td>
<td>20.9</td>
<td>24.2</td>
<td>24.3</td>
<td>23.1 kW/m²</td>
</tr>
<tr>
<td>Total Heat Released</td>
<td>17.8</td>
<td>18.4</td>
<td>15.8</td>
<td>17.3 MJ/m²</td>
</tr>
<tr>
<td>Ave. Effective Heat of Combustion</td>
<td>7.8</td>
<td>8.1</td>
<td>7.0</td>
<td>7.6 MJ/kg</td>
</tr>
<tr>
<td>Initial Thickness</td>
<td>6.5</td>
<td>6.5</td>
<td>6.5</td>
<td>6.5 mm</td>
</tr>
<tr>
<td>Initial Mass</td>
<td>92.0</td>
<td>88.6</td>
<td>87.6</td>
<td>89.4 g</td>
</tr>
<tr>
<td>Mass Remaining</td>
<td>73.3</td>
<td>70.1</td>
<td>69.2</td>
<td>70.9 g</td>
</tr>
<tr>
<td>Mass Percentage Pyrolysed</td>
<td>20.3</td>
<td>20.9</td>
<td>21.0</td>
<td>20.7%</td>
</tr>
<tr>
<td>Mass Loss</td>
<td>18.7</td>
<td>18.5</td>
<td>18.4</td>
<td>18.5 g</td>
</tr>
<tr>
<td>Average Rate of Mass Loss</td>
<td>1.3</td>
<td>1.3</td>
<td>1.2</td>
<td>1.3 g/m².s</td>
</tr>
</tbody>
</table>

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.

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.

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

This test was carried out by a sub-contracted laboratory.

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New Zealand Wool Testing Authority Ltd
Cnr Bridge & Lever Streets, PO Box 1265
Ahuriri, Napier 4144, New Zealand
T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz
No. 1117988.4
(Please quote this number in all correspondence)

CLIENT: At Work
At Work
PO Box 37378
Parnell
Auckland
Attn: Therese Ronalde

SAMPLE RECEIVED FROM: At Work
SAMPLE DESCRIPTION: One Synergy woven green fabric, 95% Wool 5% Polyamide
660 g/m²
End use – upholstery / wall panels

Client Order No.: 3/8

Specimen: 1

Heat release rate (kW/m²)

Effective heat of combustion (MJ/kg)

Smoke production rate (m²/s)

Specific extinction area (m²/kg)

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No. 1117988.4
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CLIENT: At Work
At Work
PO Box 37378
Parnell
 Auckland
Attn: Therese Ronald

SAMPLE RECEIVED FROM: At Work
SAMPLE DESCRIPTION:
One Synergy woven green fabric, 95% Wool 5% Polyamide
560 g/m², metre,
End use – upholstery / wall panels

Client Order No.: 4/8
Client Reference: 4/8

---

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C. Judan
Signatory
10/12/2015
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PO Box 37378
Parnell
Auckland
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SAMPLE RECEIVED FROM: At Work

SAMPLE DESCRIPTION: One Synergy woven green fabric, 95% Wool 5% Polyamide
560 g/lineal metre,
End use – upholstery / wall panels

No. 1117988.4
(Please quote this number in all correspondence)

Date: 25.11.15

Heat release rate (kW/m²)

Effective heat of combustion (MJ/kg)

Smoke production rate (m³/s)

Specific extinction area (m²/kg)

Specimen: 2
Client Order No.: 5/8

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CLIENT:
At Work
PO Box 37378
Parnell
Auckland

SAMPLE RECEIVED FROM:
At Work

SAMPLE DESCRIPTION:
One Synergy woven green fabric, 95% Wool 5% Polyamide
560 g/lineal metre,
End use – upholstery / wall panels

Date: 25.11.15

Client Order No.: 6/8

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10/12/2015
CLIENT: At Work
PO Box 37378
Parnell
Auckland
Attn: Therese Ronalde

SAMPLE RECEIVED FROM: At Work

SAMPLE DESCRIPTION: One Synergy woven green fabric, 95% Wool 5% Polyamide
560 g/lineal metre,
End use – upholstery / wall panels

Client Order No.: 7/8

Specimen: 3

Heat release rate (kW/m²)

Effective heat of combustion (MJ/kg)

Smoke production rate (m³/s)

Specific extinction area (m²/kg)

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CLIENT: At Work
PO Box 37378
Parnell
Auckland

Attn: Therese Ronalde

DATE: 25.11.15

SAMPLE RECEIVED FROM: At Work

SAMPLE DESCRIPTION:
One Synergy woven green fabric, 95% Wool 5% Polyamide
560 g/m²
End use – upholstery / wall panels

Client Order No.: Client Reference: 8/8

---

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