
**Specimens**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Heat Release:</td>
<td>24.1</td>
<td>21.8</td>
<td>21.9</td>
<td>22.6 kW/m²</td>
</tr>
<tr>
<td>Average Specific Extinction Area:</td>
<td>64.3</td>
<td>71.6</td>
<td>67.8</td>
<td>67.9 m²/kg</td>
</tr>
<tr>
<td>(According to Specification C1.10 of the Building Code of Australia)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group Number Classification:</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>(In Accordance with AS 5637.1-2015)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test Orientation: Horizontal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></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>14</td>
<td>15</td>
<td>14</td>
<td>14 sec.</td>
</tr>
<tr>
<td>Test Duration</td>
<td>249</td>
<td>285</td>
<td>273</td>
<td>269 sec.</td>
</tr>
<tr>
<td>Peak Heat Release After Ignition</td>
<td>138.3</td>
<td>141.3</td>
<td>133.5</td>
<td>137.7 kW/m²</td>
</tr>
<tr>
<td>Average Heat at 60 s</td>
<td>79.2</td>
<td>76.2</td>
<td>74.2</td>
<td>76.5 kW/m²</td>
</tr>
<tr>
<td>Average Heat at 180 s</td>
<td>29.5</td>
<td>28.8</td>
<td>27.6</td>
<td>28.6 kW/m²</td>
</tr>
<tr>
<td>Average Heat at 300 s</td>
<td>N/A</td>
<td>21.8</td>
<td>21.9</td>
<td>14.6 kW/m²</td>
</tr>
<tr>
<td>Total Heat Released</td>
<td>5.7</td>
<td>5.9</td>
<td>5.7</td>
<td>5.8 MJ/m²</td>
</tr>
<tr>
<td>Ave. Effective Heat of Combustion</td>
<td>4.1</td>
<td>3.9</td>
<td>4.1</td>
<td>4.0 MJ/kg</td>
</tr>
<tr>
<td>Initial Thickness</td>
<td>7.0</td>
<td>7.0</td>
<td>7.0</td>
<td>7.0 mm</td>
</tr>
<tr>
<td>Initial Mass</td>
<td>81.7</td>
<td>81.7</td>
<td>81.7</td>
<td>81.7 g</td>
</tr>
<tr>
<td>Mass Remaining</td>
<td>70.1</td>
<td>69.3</td>
<td>70.3</td>
<td>69.9 g</td>
</tr>
<tr>
<td>Mass Percentage Pyrolysed</td>
<td>14.2</td>
<td>15.2</td>
<td>13.9</td>
<td>14.4%</td>
</tr>
<tr>
<td>Mass Loss</td>
<td>11.6</td>
<td>12.4</td>
<td>11.4</td>
<td>11.8 g</td>
</tr>
<tr>
<td>Average Rate of Mass Loss</td>
<td>6.0</td>
<td>5.7</td>
<td>5.4</td>
<td>5.7 g/m².s</td>
</tr>
</tbody>
</table>

**Signatory:**

L A Greer

C Judan

04/08/2017

New Zealand Wool Testing Authority Ltd
22 Bridge Street, PO Box 12065
Napier, Napier 4144, New Zealand
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"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.
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.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all 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.

This test was carried out by a sub-contracted laboratory.
CLIENT: At Work
PO Box 37 378
Parnel, Auckland

SAMPLE RECEIVED FROM: At Work

SAMPLE DESCRIPTION:
Woven fabric – Synergy 170, 95% Wool 5% Polyamide,
400 grams lineal metre.
End use – Panel & Upholstery

Date Received: 4.7.17

Client Order No.: Client Reference: 3 of 8

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No. 1186018.6

(Please quote this number in all correspondence)

CLIENT:
At Work
PO Box 37 378
Parnel, Auckland

SAMPLE RECEIVED FROM:
At Work

SAMPLE DESCRIPTION:
Woven fabric – Synergy 170, 95% Wool 5% Polyamide,
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End use – Panel & Upholstery

Date Received: 4.7.17

Client Order No.: 4 of 8

Client Reference:

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CLIENT: At Work
At Work
PO Box 37 378
Parnel, Auckland

SAMPLE RECEIVED FROM: At Work

SAMPLE DESCRIPTION:
Woven fabric – Synergy 170, 95% Wool 5% Polyamide,
400 grams linear metre.
End use – Panel & Upholstery

Client Order No.: 5 of 8

Client Reference:

Specimen: 2

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 37 378
Parnel, Auckland

SAMPLE RECEIVED FROM: At Work

SAMPLE DESCRIPTION:
Woven fabric – Synergy 170, 95% Wool 5% Polyamide,
400 grams lineal metre.
End use – Panel & Upholstery

Client Order No.:  
Client Reference: 6 of 8

Mass loss rate (g/s)

Total heat released (MJ/m²)

Mass (g)

Rate of smoke release (m³/h/m²)

Time (s)

Time (s)

Time (s)

Time (s)

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Parnel, Auckland

SAMPLE RECEIVED FROM: 
At Work

SAMPLE DESCRIPTION:
Woven fabric – Synergy 170, 95% Wool 5% Polyamide,
400 grams lineal metre.
End use – Panel & Upholstery

Date Received: 4.7.17

Client Order No.: 

Client Reference: 8 of 8

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