This is to certify that the specimen described below was tested by BRANZ for determination of Group Number Classification and Average Specific Extinction Area in accordance with AS/NZS 3837 and ISO 5660 Parts 1 and 2.

**Test Sponsor**
Armstrong World Industries P/L
Unit 4, 1 Basalt Road
Pemulwuy, NSW 2145
Australia

**Date of tests**
11th April and 7th June 2017

**Reference BRANZ Test Report**
FH 6154-TT – issued 14th July 2017

**Test specimen as described by the client**
MetalWorks Ceiling Panels with Micro-Perforated face and white powder coated finish. Panels have a Soundtex fleece backing (approx. 0.4mm thick) applied to back of panel.

<table>
<thead>
<tr>
<th>Specimen reference</th>
<th>Mass (g)*</th>
<th>Thickness (mm)*</th>
<th>Apparent density (kg/m³)*</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH6154-1-50-3</td>
<td>107.9</td>
<td>16.6</td>
<td>650</td>
<td>White</td>
</tr>
<tr>
<td>FH6154-1-50-4</td>
<td>107.8</td>
<td>16.6</td>
<td>649</td>
<td>White</td>
</tr>
<tr>
<td>FH6154-1-50-5</td>
<td>108.9</td>
<td>16.7</td>
<td>652</td>
<td>White</td>
</tr>
<tr>
<td>FH6154-2-50-1</td>
<td>78.8</td>
<td>17</td>
<td>464</td>
<td>Black</td>
</tr>
</tbody>
</table>

Note: Shaded row – single indicative test of back face  
* Measurement includes substrate

**Group Number Classification in accordance with the New Zealand Building Code**
Calculations were carried out according to NZBC Verification Method C/VM2 Appendix A. The classification for the sample as described above is given in the table below.

**Group Number Classification in accordance with NCC Australia**
Calculations were carried out according to AS 5637.1:2015. The Group Number Classification and Average Smoke Extinction Area for the sample as described above is given in the table below.

**Determination of Fire Hazard Properties**
The specimen was deemed suitable for testing in accordance with AS 5637.1:2015 and testing was performed in accordance with AS/NZS 3837 for the purposes of Group Number Classification as specified in the NCC Volume One Specification C1.10 Clause 4. A single indicative test (FH6154-2-50-1) was completed to evaluate the impact of multiple layers on the fire performance.

<table>
<thead>
<tr>
<th>Building Code Document</th>
<th>Group Number Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>NZBC Verification Method C/VM2 Appendix A</td>
<td>1-S</td>
</tr>
<tr>
<td>NCC Volume One Specification C1.10 Clause 4 determined in accordance with AS 5637.1:2015</td>
<td>The average specific extinction area was less than the 250 m²/kg limit</td>
</tr>
</tbody>
</table>

**Issued by**
L. F. Hersche, Fire Testing Technician

**Reviewed by**
P. C. R. Collier  
Senior Fire Testing Engineer  
IANZ Approved Signatory

**Issue Date**  
14th July 2017

**Expiry Date**  
14th July 2022

Regulatory authorities are advised to examine test reports before approving any product.

All tests and procedures reported herein, unless indicated, have been performed in accordance with the laboratory’s scope of accreditation.