

The Hushtec Acoustic Panel System is engineered with a dual-layer construction, designed to provide superior acoustic performance while meeting stringent fire safety standards. The system comprises two primary components:

1. Hushtec AAB Baffle (Internal Acoustic Core):

A high-density, non-combustible acoustic absorber manufactured from advanced polyester fibre technology. This inner layer provides exceptional sound attenuation and fire resistance, forming the core of the panel's acoustic control capability.

2. Outer PVC Composite Layers:

Durable, flexible PVC layers that encapsulate the internal baffle, offering enhanced protection, weather resistance, and aesthetic versatility. These outer layers are formulated with fire-retardant additives to meet applicable building code fire safety requirements.



1. Hushtec AAB Baffle – Fire Test Results

The Hushtec AAB Baffle has undergone comprehensive fire testing to verify compliance with stringent New Zealand and international standards for fire safety in building and industrial applications.

Test Standards & Results

- **ISO 9705:1993 (Full-scale Room Fire Test)**
 - **Classification:** Group 1-S
 - **Smoke Production Rate:** < 5.0 m²/s
 - **Compliance:** Meets the requirements of NZBC C/VM2
 - **Test References:** FI 4973 and FAR 4045
- **AS/NZS 1530.3 (Early Fire Hazard Properties)**
 - **Ignitability Index (0-20):** 0
 - **Heat Evolved Index (0-10):** 0
 - **Spread of Flame Index (0-10):** 0
 - **Smoke Developed Index (0-10):** 0–1
 - **Test Reference:** FNE8363
- **IEC 60695-11-5 (Needle-Flame Test for Downlight Applications)**
 - The Hushtec AAB Baffle has been independently tested and assessed as **compliant** with IEC 60695-11-5.
 - Originally tested under the GreenStuf AAB product family, Hushtec AAB is a GreenStuf product, being produced specifically for Hushtec.



2: Outer PVC Composite Layers:

This test report below was completed on the outer durable, flexible PVC layers that encapsulate the internal baffle, offering enhanced protection, weather resistance, and aesthetic versatility. These outer layers are formulated with fire-retardant additives to meet applicable building code fire safety requirements.



NZWTA

No. 1141165.9

(Please quote this number in all correspondence)

Date: 15.6.16

Attn.: Mark white

SAMPLE DESCRIPTION:
PVC, 650 gsm, white colour.

Client Order No.: 24249

Client Reference:

1 of 1

AS 1530.2-1993 – METHODS FOR FIRE TESTS ON BUILDING MATERIALS, COMPONENTS AND STRUCTURES PART 2: TEST FOR FLAMMABILITY OF MATERIALS

This test was carried out by a NATA accredited subcontracted laboratory

Samples tested as received

When face and back are tested, the worst results are quoted.

	Length	Width
Maximum Height (D) – Mean	4.4	4.0
CV%	24.8	30.6
Time (t) – Mean	N/A	N/A
CV%	N/A	N/A
Heat (A) – Mean (°C.min.)	3.4	2.6
CV%	29.4	28.4
Number of Test Specimens	9	9
Observation	Visible smoke, blackening on both sides.	

	Length	Width
Speed Factor (S)	N/A	N/A
Spread Factor (E)	3	2
Heat Factor (H)	1	1

Flammability Index calculation; $I = H + E$ or $I = H + S$

Flammability Index = 4

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

Specimens were tested face, back, face, back, etc.

"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Except where the sample is drawn independently by NZWTA Ltd, NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested sample. The above test results are not certified due to the adoption of modified and/or non-standard procedures designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. Except where precluded by law, no responsibility can be accepted by NZWTA Ltd for any claim which may arise from any person acting on information contained herein.

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Signatory


C. Jordan
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06/07/2016

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