

FH 5961-C1 ISSUE 3

GROUP NUMBER CLASSIFICATION

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

Test Sponsor

Armstrong Ceiling Solutions (Australia) Pty Ltd
Unit 4, 1 Basalt Road
Pemulwuy, 2145, NSW,
Australia

Date of tests

1, 12, and 28 July 2016

Reference BRANZ Test Report

FH 5961 Issue 3 – 19 August 2021

Test specimens as described by the client

Optra Ceiling Panels - a nominally 15 mm – 25 mm thick glass wool core with a painted scrim on the face and an unpainted vail on the reverse surface. Panel edges and scrim faces are typically painted white or black (colours available).

Optra Soundscapes - (Shapes, Capz, Canopies or Baffles), a nominally 30 mm – 40 mm thick glass wool core with a white painted scrim on both the front and back faces. Typically painted white but also available in a range of colours. Figure 1 illustrates representative specimens of that tested.

Specimen ID	Mass (g)	Thickness (mm)	Apparent Density (kg/m ³)	Colour
FH5961-1-50-1/5/6	62.8*	40.5*	155*	White
FH5961-3-50-1	19.4	15	129	Black

*Mean value across three replicate test specimens

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.

Discussion

No significant variations were detected in the indicative testing of 15 mm Optra Ceiling Panels (Black). The sample was designated a Group 1-S classification. Specimen with a thickness between 15 mm – 40 mm and a colour variance in the painted finish would be expected to achieve an equivalent classification to the replicate test specimens as shown below.

Building Code Document	Group Number Classification
NZBC Verification Method C/VM2 Appendix A	1-S
NCC Volume One Specification C1.10 Clause 4 determined in accordance with AS 5637.1:2015	1 The average specific extinction area was less than the 250 m ² /kg limit

Issued by



L. F. Hersche
Fire Testing Engineer
IANZ Approved Signatory

Reviewed by



S. Whatham
Fire Testing Engineer
IANZ Approved Signatory

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



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Expiry Date

19 August 2026

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