

FH13137-01-2-C1

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.

Test Sponsor

Armstrong Ceiling Solutions (Australia) Pty Ltd
75 Long Street
Smithfield NSW 2164
Australia

Date of tests

8 May 2018, 15 May 2018, 19 July 2018, and
19 November 2021

Reference BRANZ Test Report

FH13137-01-2 – 31 March 2022

Test specimens as described by the client

Armstrong Ceiling Solutions Ceiling Tiles

Mineral fibre ceiling tiles in types Ultima OP Black, Ultima OP, Dune, Bioguard Acoustic, Bioguard Acoustic OP RH100, Fine Fissured, Ultima dB, and Ultima OP dB.

Specimen Reference	Product Reference	Mass (g)	Thickness (mm)	Apparent Density (kg/m ³)	Colour
FH6339-1-50-1	Ultima OP Black	33.1	19.2	172	Black
FH6339-2-50-1	Ultima OP	28.2	15.0	188	White
FH6339-3-50-1	Dune	38.2	15.2	251	White
FH6339-4-50-1	Bioguard Acoustic	42.7	18.8	227	White
FH6339-5-50-1	Bioguard Acoustic OP RH100	53.2	18.9	282	White
FH6339-6-50-1	Fine Fissured	35.5	14.6	243	White
FH6339-7-50-1	Ultima dB	104.4	30.3	345	White
FH6339-8-50-1	Ultima OP dB	106.9	42.3	253	White

Discussion

Indicative testing

No significant variations were detected in the indicative testing of Armstrong Ceiling Solutions mineral fibre ceiling tiles "Ultima OP Black", "Ultima OP", "Dune", "Bioguard Acoustic", "Bioguard Acoustic OP RH100", "Fine Fissured", "Ultima dB", and "Ultima OP dB". Each indicative sample tested was designated a Group 1-S classification. Armstrong Ceiling Solutions ceiling tiles which maintain the following parameters of equivalency, are deemed to achieve equivalent group number classification.

Perforations

Armstrong Ceiling Solutions ceiling tile types "Fine Fissured", "Casa", "Classic" and "Classic Lite" vary from tested range of tiles in perforation patterns only. "Fine Fissured", "Casa", "Classic" and "Classic Lite" ceiling panels are deemed to achieve equivalent group number classification within the parameters of equivalency.

Thickness

Armstrong Ceiling Solutions ceiling tile types Ultima OP, Ultima dB and Ultima OP dB may vary from the tested range of tiles in thickness and density only. Fine Fissured High NRC and Dune Max tiles are deemed to achieve equivalent group number classification within the parameters of equivalency.

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Parameters of equivalency				
Product type	Product reference	Colour	Nominal thickness (mm)	Nominal density (kg/m ³)
Fine Fissured or Perforated with / without sand texture	Fine Fissured	White	15 – 19	≥300
	Classic*			
	Dune			
	Dune Max*			
Ultima and Bioguard Acoustic Range with Fleece Surface	Ultima	White	15 - 43	≥160
	Ultima OP*			
	Bioguard Acoustic			
	Ultima dB			
	Ultima OP dB			
	Bioguard Acoustic OP RH100			
Ultima and Bioguard Acoustic Range with coloured Fleece Surface	Ultima OP*	Black	15 – 19	≥150

Note: *product variation as detailed in Discussion.

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 ISO 5660 for the purposes of Group Number Classification as specified in the NCC Volume One Specification C1.10 Clause 4.

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
BRANZ

Issue Date

31 March 2022

Reviewed by


E. Soja
Senior Fire Safety Engineer
IANZ Approved Signatory

Expiry Date

31 March 2027

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