

FH19890-01-2-C1

GROUP NUMBER CLASSIFICATION



This is to certify that the specimens described below were tested by BRANZ in accordance with ISO 5660 for determination of Group Number classification

Test Sponsor

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

Date of tests

23rd July and 2nd August 2024

Reference BRANZ Test Report

FH19890-01-2 – 2 April 2025

Test specimens as described by the client

Optra dB acoustic ceiling panels

Optra dB acoustic ceiling panels, a nominally 40 mm glass wool core with a painted scrim on the face, adhered to nominally 9 mm Armgyp plasterboard backing with a foil backing.

Specimen ID	Composition	Mean Values			Group Number (NZBC/NCC)
		Mass (g)	Thickness (mm)	Apparent Density (kg/m ³)	
FH19890-1-50-1,2,3*	Complete composition [^]	111.6*	49.4*	226*	1-S/1
FH19890-2-50-1,2,3*	Glass wool – white painted ⁺	46.7*	39.6*	118*	1-S/1
FH19890-3-50-1	Plasterboard	62.8	10.0	628	1-S/1
FH5961-3-50-1	Glass wool – Black painted	19.4	15.0	129	1-S/1

*Mean values for replicate specimens [^]Determination of highest Group Number ⁺Determination of highest ASEA

Discussion No significant variations were detected in the indicative testing of individual layers, including variants of Optra Ceiling panels with thicknesses as low as 15mm, also with Black finish. The samples were designated the same classification. Optra dB composite specimens are available with a thickness between 25 mm – 50 mm and include colour variants of the painted finish. These would be expected to achieve an equivalent classification to the replicate test specimens as shown below.

Group Number Classification in accordance with the New Zealand Building Code and NCC

Australia The specimens were deemed suitable for testing and calculations were carried out in accordance with NZBC Verification Method C/VM2 Appendix A and AS 5637.1:2015. Classification for the sample as described above is given in the table below.

Building Code Document	Group Number Classification
NZBC Verification Method C/VM2, Amendment 7, Appendix A	1-S
NCC 2022 Volume One Specification 7 Clause S7C4 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. M. Grant
Fire Testing Engineer
BRANZ

Reviewed by

L. Q. Greive
Fire Testing Engineer
BRANZ

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

Issue Date

2 April 2025

Authorised by

L. F. Hersche
Fire Testing Engineer
IANZ Approved Signatory



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