

FH17983-02-3-C1

GROUP NUMBER ASSESSMENT



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

Test Sponsor

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

Date of tests

21st and 31st August 2023, 13th
March 2024 and 31st January 2025

Reference BRANZ Test Report

FH17983-02-3 – 6 March 2025

Test specimens as described by the client:

Nominally 15 mm to 35 mm Heradesign & Heradesign Alpha+ Ceiling Panel

The ceiling panels are made up of magnesite-bonded wood wool compressed into panels in variants both with or without a thin acoustic fleece backing. The panels come in a range of thicknesses nominally 15 mm to 35 mm thick consisting of fine and superfine wood fibres in both beige and white colour.

Specimen ID	Mass (g)	Thickness (mm)	Apparent Density (kg/m ³)	Colour	Indicative Group Number
FH17983-3A-50-1	112.8	24.6	459	Beige	Group 1
FH17983-3B-50-(1-3)	76.0*	14.9*	511*	Beige	Group 1
FH17983-4B-50-1	88.0	14.8	595	Beige	Group 1
FH17983-1B-50-1	72.0	14.8	486	White	Group 1
FH18446-1-50-1	134.3	35.0	384	Beige	Group 1
FH20510-1-50-1	71.7	14.9	481	Beige	Group 1

Notes: *mean values for replicate test samples.

Discussion

Variations of specimen thickness, colour, and wood fibre were tested with consistent results and the same indicative classification was determined for all. As the most onerous product was tested in full as discussed in Section 3, it is considered that the test data for the Superfine beige 15 mm specimen may be used for all thicknesses in the range of 15 mm to 35 mm, in both fine and superfine wood fibres, and with or without a fabric backer in the standard white and beige colours offered in the ceiling panel range to determine their Group Number Classification and Average Specific Extinction Area.

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Group Number Classification in accordance with the New Zealand Building Code (NZBC) and National Construction Code of Australia (NCC)

The specimens were deemed suitable for testing and calculations for establishing a Group Number were carried out in accordance with New Zealand Building Code (NZBC) Verification Method C/VM2 Appendix A.

Testing was performed in accordance with ISO 5660, cone calorimeter test, for the purposes of Group Number Classification as specified in the National Construction Code (NCC) Volume One, Specification 7, Clause S7C4. As per Section 9 (n) of AS 5637.1, It was deemed valid to test the particular material in the cone calorimeter for the determination of National Construction Code NCC group number. Classification for the sample as described above is given in the table below.

Building Code Document	Group Number Classification
NZBC Verification Method C/VM2 Appendix A	Group 1-S
NCC 2022 Volume One Specification 7, Clause S7C4, determined in accordance with AS 5637.1:2015	Group Number 1 The average specific extinction area was less than the 250 m ² /kg limit

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

Issued by


L. M. Grant
Associate Fire Testing
Engineer
BRANZ

Reviewed by


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Fire Testing Engineer
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Authorised by


L. Q. Greive
Fire Testing Engineer
IANZ Approved Signatory

Issue Date

6 March 2025