FH15783-01-1-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 and AS/NZS 3837.

Test Sponsor

Knauf Gypsum Pty Ltd
17-47 Turner Street
Port Melbourne, VIC 3207
Australia

Date of tests

16th February 2022

Reference BRANZ Test Report

FH15783-01-1 – 1 August 2022

Test specimens as described by the client

Knauf Multistop 3 (aka Multistop 4)

Comprising nominally 16 mm thick gypsum core, sandwiched between two layers of light green coloured recycled paper liner.

Knauf Shaftliner Mouldstop

Comprising nominally 25 mm thick gypsum core, sandwiched between two layers of ivory coloured recycled paper liner.

Specimen	Specimen Reference	Mean values			Colour (Front Face)
		Mass (g)	Thickness (mm)	Apparent Density (kg/m³)	
Multistop	FH15783-1-50-1,2,3	152.6	16.2	942	Green
Shaftliner	FH15783-2-50-1,2,3	210.2	24.5	858	Ivory

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 specimens were 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.

Discussion – Reduced thickness

No significant variations were detected in the testing of Multistop and Shaftliner, of nominal 16 mm and 25 mm thickness respectively. The initial HRR peaks of approximately 108 kW/m² is attributed to the top surfaces. The top surfaces are described above as coloured, recycled paper. On the basis that it is the paper facing on the surfaces that contributes to the peak HRR, a reduction of the thickness or the mass of the core is unlikely to influence the magnitude of the peaks to any meaningful extent.

The client has provided a statement that the composition of a nominally 13 mm thick variant of Multistop is identical, bar the core thickness, it is therefore expected to achieve the same classification as outlined 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 m2/kg limit

Issued by

J. R. Stallinger
Associate Fire Testing Engineer
BRANZ

Issue Date
1 August 2022

Reviewed by

L. F. Hersche
Fire Testing Engineer
IANZ Approved Signatory

Expiry Date
1 August 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