

FH 5701-002-02

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 AS 3837:1998 and ISO 5660 Parts 1 and 2.

Test Sponsor

Alsynite One NZ Ltd
7 De Leeuw Place
Te Rapa Park
Hamilton, 3200
New Zealand

Date of tests

6 May and 12 May 2015
29 June 2020

Reference BRANZ Test Report

FH 5701-001-02 – 20 August 2020

Test specimens as described by the client

Topglass GC SPF 4 50 FR and Topglass GC 50 FR, a high refractive index translucent roofing product including an Alsynite Proprietary Bromine Free Fire Retardant resin system, with and without superviolet powder.

Specimen Reference	Mass (g)	Thickness (mm)	Apparent Density (kg/m ³)	Date of Test
FH5701-3-50-1	18.3	1.3	1408	6/5/2015
FH5701-3-50-2	17.8	1.3	1369	12/5/2015
FH5701-3-50-3	17.9	1.3	1377	12/5/2015
FH13024-1-50-1	18.7	1.3	1439	29/06/2020

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

Calculations for NZBC were carried out according to NZBC Verification Method C/VM2 Appendix A. Calculations for NCC Australia were carried out according to AS 5637.1:2015. The classification 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.

Revalidation

No significant variations were detected in the revalidation test of sample FH13024-1-50-1. Further testing would not be expected to lead to an alteration of the classification determined in test report FH5701-TT [2015].

Discussion

In addition to the Topglass GC SPF 4 50 FR tested and reported herein, an additional product of the same composition without superviolet powder under the name Topglass GC 50 FR is produced. It is unlikely that removing the superviolet powder will change the fire performance when tested to ISO 5660 or AS/NZS 3837:1998 and it is considered that Topglass GC 50 FR will retain the Group Number classifications achieved by Topglass GC SPF 4 50 FR.

Building Code Document	Group Number Classification
NZBC Verification Method C/VM2 Appendix A	3
NCC Volume One Specification C1.10 Clause 4 determined in accordance with AS 5637.1:2015	3 The average specific extinction area was greater than the 250 m ² /kg limit

Issued by

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BRANZ

Reviewed by

E. Soja
Senior Fire Safety Engineer
IANZ Approved Signatory

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



Issue Date

20 August 2020

Expiry Date

20 August 2025

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