

FH16947-01-1-C1

GROUP NUMBER CLASSIFICATION



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

Powder Coating Group NZ Limited
643 Great South Road
Auckland, 1061
New Zealand

Date of tests

22nd February 2023

Reference BRANZ Test Report

FH16947-01-1 – 31 March 2023

Test specimens as described by the client: Metwood sublimated finish on aluminium.

| Product ID (Colour) | Specimen ID | Mass (g) | Thickness (mm) | Apparent Density (kg/m ³) |
|---------------------|----------------------|----------|----------------|---------------------------------------|
| Black | FH16947-3-50-1, 2, 3 | 66.6* | 3.0* | 2778* |
| Cream | FH16947-2-50-1 | 82.9 | 3.0 | 2763 |
| Brown | FH16947-1-50-1 | 83.1 | 3.0 | 2770 |

Notes: *mean values for replicate test samples.


Shaded rows – single indicative test specimen

Group Number Classification in accordance with the New Zealand Building Code

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

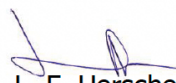
| Building Code Document | Classification |
|---|------------------|
| NZBC Verification Method C/VM2 Appendix A | Group Number 1-S |

Issued by


L. Q. Greive
Associate Fire Testing
Engineer
BRANZ

Issue Date
31 March 2023

Reviewed and authorised for release by


L. F. Hersche
Fire Testing Engineer
BRANZ

Expiry Date
N/A

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

FH16947-03-1-C1 CLADDING PERFORMANCE



This is to certify that the specimen described below was tested by BRANZ
in accordance with ISO 5660-1:2002

Test Sponsor
Powder Coating Group NZ Limited
643 Great South Road
Auckland, 1061
New Zealand

Date of tests
22nd February, 23rd and 30th June, 11th
August 2023

Reference BRANZ Test Report
FH16947-03-1 – issued 24 August 2023

Test specimens as described by the client: Metwood sublimated finishes on aluminium substrate.

| Product ID (Colour) | Specimen ID | Mass (g) | Thickness (mm) | Apparent Density (kg/m ³) |
|---------------------|--------------------------|----------|----------------|---------------------------------------|
| Black | FH16947-4-50-1 | 80.3 | 3.1 | 2590 |
| Light Brown | FH16947-2-50-1,2,3,4,5,6 | 82.5* | 3.2* | 2569* |
| Dark Brown | FH16947-1-50-1 | 83.1 | 3.0 | 2770 |

Notes: *mean values for test samples.
Shaded rows – indicative test specimen

Performance in accordance with the New Zealand Building Code


Calculations were carried out according to NZBC Verification Method C/VM2 Table 4.1. The performance for the samples as described above is given in the table below.

Discussion


The classification below is considered applicable to the entire colour range of Metwood sublimated finishes on aluminium substrate.

| Building Code Document | Cladding Material Performance |
|---|---|
| NZBC Acceptable Solutions C/AS1 (2020) Table 5.1 | < 100 kW/m ² and, < 25 MJ/m ² |
| NZBC Acceptable Solutions C/AS2 (2020) Table C1.3 | Type A |

Issued by


L. Q. Greive
Associate Fire Testing
Engineer
BRANZ

**Reviewed and Approved
for Release by**


L. F. Hersche
Fire Testing Engineer
BRANZ

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



Issue Date
24 August 2023

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