

FH13174-002-C1 ISSUE 1

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.

Test Sponsor

Dulux Powder Coatings
31b Hillside Road
Glenfield, Auckland 0627
New Zealand

Date of tests

18th February and 17th March 2021

Reference BRANZ Test Report

FH13174-002 ISSUE 1 – issued 23 September 2021

Test specimens as described by the client

Duralloy +Plus pearlescent range and Duralloy +Plus solid range

Polyester thermosetting powder-coat paints, with a nominal thickness between 60-100 µm, applied to a nominally 2 mm thick aluminium sheet substrate.

Specimen Reference	Mass (g) *	Thickness (mm) *	Apparent Density (kg/m ³) *	Variant	Indicative Group Number
FH13174-8-50-1	146.3	8.6	1701	Duralloy +Plus pearlescent range	1
FH13174-8-50-2	148.7	8.6	1729		1
FH13174-8-50-3	146.8	8.6	1707		1
FH13174-2-50-1	147.1	8.5	1731	Duralloy +Plus solid colour range	1

Note: Shaded row – single indicative test

* - Figures include nominally 6 mm thick fibre cement substrate.

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 specimen was 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

No significant variations were detected in the indicative testing of the Duralloy +Plus solid colour range (FH13174-2-50-1), as shown in Table 3. The indicative samples achieved equivalent performance to Duralloy +Plus pearlescent range and are deemed to achieve equivalent Group Number classification as shown 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 m ² /kg limit

Issued by


J. Stallinger
Associate Fire Testing Engineer
BRANZ

Reviewed by


L. F. Hersche
Fire Testing Engineer
IANZ Approved Signatory

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



Issue Date

23 September 2021

Expiry Date

23 September 2026

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