

FI13969-01-1-C1

GROUP NUMBER CLASSIFICATION



This is to certify that the specimen described below was tested by BRANZ for determination of Group Number Classification, Smoke Production Rate and SMOGRA_{RC} in accordance with AS ISO 9705:2003 (R2016) and ISO 9705:1993.

Test Sponsors

Instyle Contract Textiles Pty Ltd
6-8 Ricketty Street
Mascott 2020
Australia

Date of test:

4 August 2021

Reference BRANZ Test Report:

FI13969-01-1 – issued 23/09/2021

Test specimen as described by the client:

Instyle Ecooustic Duo

A 13 mm thick, 2,750 g/m², 100% polyester (PET) composite acoustic panel comprised of a thermally bonded 12 mm thick grey PET SC Panel and 1 mm thick white PET Ecooustic felt face with Duo V Line 110 negative detail.

Group Number classification in accordance with NCC Australia

Calculations were carried out as per AS 5637.1:2015. The Group Number classification and SMOGRA_{RC} 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 ISO 9705:2003 (R2016) for the purposes of Group Number classification as specified in the NCC Volume One Specification C1.10 Clause 4. This test comprised three walls and the ceiling lined with the test specimen.

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.

Discussion

Instyle Ecooustic Duo is also available in nominally 10 mm thick 2,250 g/m² 100% polyester. The 10 mm thick panel with reduced weight per area unit would be expected to achieve comparative performance to 13 mm thick Instyle Ecooustic Duo, as given 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 SMOGRA _{RC} was 3.5 m ² /s ² x 1000 and therefore within the 100 m ² /s ² x 1000 limit

Issued by


L. F. Hersche
Fire Testing Engineer
IANZ Approved Signatory

Issue Date

23/09/2021

Reviewed by


S. Whatham
Fire Testing Engineer
BRANZ

Expiry Date

23/09/2026



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

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