# FI16647-01-1-C1
# GROUP NUMBER CLASSIFICATION

This is to certify that the specimen described below was tested by BRANZ in accordance with AS ISO 9705 – 2003 and ISO 9705:1993 for determination of Group Number Classification.

**Test Sponsor**

Tasman Insulation New Zealand Limited
9-15 Holloway Place
Penrose
Auckland, 1061
New Zealand

**Date of test**

2 November 2022

**Reference BRANZ Test Report**

FI16647-01-1 – issued 7 December 2022

**Test specimen as described by the client:** **Comfortech Kooltherm Insulated Plasterboard** – a 40 mm thick thermoset phenolic insulation with a 10 mm plasterboard face. Thickness: 50 mm, Module Width: 1,200 mm, Weight: 6.96 kg/m², Density: 139.2 kg/m³.

## 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 the 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 for the purposes of Group Number Classification. The test specimen comprised three walls and ceiling of the test room.

| Building Code Document | Classification |
|---|---|
| NZBC Verification Method C/VM2 Appendix A: Framework for Fire Safety Design (2020) | **Group Number 1-S**<br>Average Smoke Production Rate was 0.3 $m^2/s$ and therefore within the 5 $m^2/s$ limit |
| NCC 2019 Volume One Specification C1.10 Clause 4 determined in accordance with AS 5637.1 (2015) | **Group 1**<br>The $SMOGRA_{RC}$ was 0.5 $m^2/s^2$ x 1000 and therefore within the 100 $m^2/s^2$ x 1000 limit |
| NCC 2022 Volume One Specification S7C4 determined in accordance with AS 5637.1 (2015) | |

**Issued by**

L. Q. Greive
Associate Fire Testing Engineer

**Issue Date**
7 December 2022

**Reviewed and approved for release by**

L. F. Hersche
Fire Testing Engineer

**Expiry Date**
7 December 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