

# FI17952-01-C1

## GROUP NUMBER CLASSIFICATION



This is to certify that the specimen described below was tested by BRANZ for determination of Group Number Classification and SMOGRA<sub>RC</sub>, in accordance with AS ISO 9705 – 2003 (R2016) and ISO 9705:1993.

### Test Sponsor

Metalcraft Roofing  
30 Highbrook Drive  
East Tamaki  
New Zealand

### Date of test

2 November 2023

### Reference BRANZ Test Report

FI17952-01-1 – issued 5 September 2024

### Test specimen as described by the client

The product submitted by the client for testing was identified by the client as Metalcraft Roofing Met-therm<sup>®</sup> Warm Roofing and Wall Cladding System, a nominally 250 mm thick multi-layered insulated roofing system comprising of a double layer of 75 mm thick MetecnoTherm<sup>®</sup> polyisocyanurate (PIR) board insulation, Metalcraft ebatten<sup>®</sup>, and Pro Clima Solitex Mento 3000 weatherproof underlay sandwiched between Metalcraft Metcom 7 profiled external sheet and external topside (outer) layer of PIR board. Metalcraft polyester packers, Pro Clima Compego and Extora Flashing Tape, 0.55 BMT steel flashings, screw fixings, rivets and Bostik Firecaulk were all used during the installation of the system.

### Group Number Classification in accordance with NCC Australia

Calculations were carried out as per AS 5637.1:2015. The Group Number Classification SMOGRA<sub>RC</sub> 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 classification. 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.

Building Code Document	Classification
NZBC Verification Method C/VM2 Appendix A	<b>Group Number 1-S</b>
NCC 2022 Volume One Specification 7, Clause S7C4, determined in accordance with AS 5637.1:2015	<b>Group 1</b> The SMOGRA <sub>RC</sub> was 5.1 m <sup>2</sup> /s <sup>2</sup> x 1000 and therefore within the 100 m <sup>2</sup> /s <sup>2</sup> x 1000 limit

### Issued by

  
L. Q. Greive  
Fire Testing Engineer  
BRANZ

### Issue Date

5 September 2024

### Reviewed and authorised by

  
E. Soja  
Senior Fire Safety Engineer  
BRANZ

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