

Certificate of Assessment

NKI6989

No. 1851

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This is to certify that the specimen described below was tested by the CSIRO Division of Materials Science and Engineering in accordance with International Standard ISO 5660-1:2002 Reaction-to-fire tests – Heat release, smoke production and mass loss rate – Part 1: Heat release rate (cone calorimeter method) and Part 2: Smoke production rate (dynamic measurement), at 50 kW/m², on behalf of:

Forman Building Systems Limited
20 Vestey Drive
Mt. Wellington
AUCKLAND
NEW ZEALAND

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FNKI 10866.

SAMPLE IDENTIFICATION: Fibreglass Pipe Section Foil-faced

DESCRIPTION OF SAMPLE: The sponsor described the tested specimen as glass-fibre pre-formed pipe section with aluminium foil facing. The foil facing was adhered onto the glass-fibre using polyvinyl acetate (PVA) adhesive at an application rate of 1 m²/L.

Nominal thickness of foil facing: 215-µm
Nominal thickness of glass-fibre: 50-mm
Nominal total thickness: 50-mm
Nominal density of glass-fibre: 80 kg/m³
Nominal mass of foil facing: 220 g/m²
Colour: silver (foil); yellow (glass-fibre)

SAMPLE CLASSIFICATION: Group Number: Group 1-S
(In accordance with Verification Method C/VM2 Appendix A Paragraph A1.2 and Paragraph A1.3 of the New Zealand Building Code.)

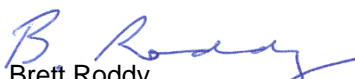
Average specific extinction area: 236.4 m²/kg
(In accordance with Verification Method C/VM2 Appendix A Paragraph A1.2 of the New Zealand Building Code.)

As a requirement of the New Zealand Building Code, Appendix CM2, Appendix A (Normative): Establishing Group Numbers for lining materials, Clause A1.1 (b), substrates of foil-faced materials must be deemed non-combustible to be appropriate for Group Number prediction using data obtained in accordance with ISO 5660.

The substrate for this material, Tasman glass-fibre insulation, had been tested to AS/NZS 1530.1:1994 Combustibility test for materials (CSIRO Report No. FNC10854, 26 Sept. 2013) and deemed non-combustible.

Testing Officer: Heherson Alarde Date of Test: 25 July 2013

Issued on the 17th day of September 2013 without alterations or additions.


Brett Roddy
Team Leader, Fire Testing



CSIRO Materials Science and Engineering
14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555