



BRANZ Ltd

Client Number 38

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Authorised Representative

Mr Keith Clark
Quality and Environment Manager

Programme

Applied Physics Testing Laboratory

Accreditation Number 37

Initial Accreditation Date 4 October 1976

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

| | |
|------|---------------------------------|
| 6.31 | Thermal Properties of Materials |
| 6.32 | Reaction to Fire |
| 6.33 | Fire Resistance Tests |

Key Technical Personnel

| | |
|------------------|------------|
| Ash Babb | 6.33 |
| Paul Chapman | 6.33 |
| Dr Ian Cox-Smith | 6.31 |
| Lisa Grant | 6.32 |
| Lester Greive | 6.32 |
| Lukas Hersche | 6.32 |
| Sheng-Huei Huang | 6.31 |
| Ed Soja | 6.32, 6.33 |
| Roger Stanford | 6.31 |
| Stephen Whatham | 6.33 |
| Peter Whiting | 6.32, 6.33 |

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6.31 Thermal Properties of Materials

(a) Conductivity

Thermal transmission properties of thermal insulations and other materials in accordance with the parts of AS/NZS 4859.1 listed below by means of a heat flow meter apparatus operated in accordance with ASTM C518 and ISO 8301.

To the least uncertainties in thermal resistance (R) detailed below:

| R (m ² K/W) | Least uncertainty of measurement |
|------------------------|----------------------------------|
| 0.05 to 15 | 2 % |

Measurement of samples with thickness in the range 2 mm to 300 mm.

Testing in accordance with the following standards

| | |
|---------------|---|
| AS/NZS 4859.1 | Thermal insulation materials for buildings Part 1: General criteria and technical provisions |
| Section 2.3.3 | Determination of thermal resistance R-value Specimen conditioned Statistically adjusted thermal properties |
| Section 4 | Cellulose fibre insulation |
| Section 5 | Insulation containing wool |
| Section 6 | Low density polyester fibre insulation |
| Section 7 | Low density mineral wool insulation |
| Section 8 | Rigid cellular foam insulation |
| Appendix B | Determination of the thickness and density of compressible fibrous insulation using ASTM C167 with variations |
| Appendix C | Determination of the thermal resistance of loose fill insulation using ASTM C687 with variations |
| AS/NZS 4859.2 | Thermal insulation materials for buildings Part 2: Design |
| Clause 5.2 | Adjusting thermal properties to a declared temperature |
| ASTM C167 | Standard Test Method for Thickness and Density of Blanket of Batt Thermal Insulations |
| ASTM C1667 | Standard Test Method for Using Heat Flow Meter Apparatus to Measure the Center-of-Panel Thermal Transmission Properties of Vacuum Insulation Panels |
| ASTM C653 | Standard Guide for Determination of the Thermal Resistance of Low-Density Blanket-Type Mineral Fiber Insulation |
| ASTM C687 | Standard Practice for Determination of Thermal Resistance of Loose-Fill Building Insulation (<i>including cellulose</i>) |
| ISO 8301 | Thermal insulation — Determination of steady-state thermal resistance and related properties — Heat flow meter apparatus |

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Incorporated by reference to AS/NZS 4859.1

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| EN 13164 | Thermal insulation products for buildings. Factory made extruded polystyrene foam (XPS) products. Specification, Annex C |
| EN 13165 | Thermal insulation products for buildings. Factory made rigid polyurethane foam (PU) products. Specification, Annex C (<i>including PIR and PUR</i>) |
| EN 13166 | Thermal insulation products for buildings. Factory made phenolic foam (PF) products. Specification, Annex C |

6.32 Reaction to Fire

Tests in this class of test may be, where required by the client, accompanied by associated statements of compliance with relevant parts of building codes.

(d) Cone Calorimeter

| | |
|-------------|--|
| AS/NZS 3837 | Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter |
| ASTM E 1354 | Standard test method for heat and visible smoke release rates for materials and products using an oxygen consumption calorimeter |
| ISO 5660.1 | Reaction to fire tests – Heat release, smoke production and mass loss rate – Part 1: Heat release rate (cone calorimeter method) |
| ISO 5660.2 | Reaction to fire tests – Heat release, smoke production and mass loss rate – Part 2: Smoke production rate (dynamic measurement) |

(e) Other fire tests

| | |
|----------|--|
| ISO 9705 | Fire tests – Full scale room test for surface products (and AS ISO 9705) |
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6.33 Fire Resistance Tests

In accordance with the following standard methods or equivalent national variations, such as BS EN, etc.

| | |
|------------------|--|
| AS 1530 Part 4 | Methods for fire tests on building materials, components and structures Part 4 Fire resistance tests of elements of construction |
| AS 1530 Part 8.1 | Methods for fire tests on building materials, components and structures Tests on elements of construction for buildings exposed to simulated bushfire attack – Radiant heat and small flaming sources |
| AS 1530 Part 8.2 | Methods for fire tests on building materials, components and structures Tests on elements of construction for buildings exposed to simulated bushfire attack – Large flaming sources |
| AS/NZS 3013 | Electrical installations—Classification of the fire and mechanical performance of wiring system elements. Appendix C Fire Test Method—Supports and Fixings |

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|--------------------|---|
| ASTM E119 | Standard methods of Fire Tests of Building Construction and materials |
| ASTM E814 | Fire Tests of Through-Penetration Fire stops |
| BS 476 Parts 20-24 | Fire tests on Building Materials and Structures |
| EN 1363-1 | Fire resistance tests – Part 1: General requirements |
| EN 1363-2 | Fire resistance tests – Part 2: Alternative and additional procedures (Clauses 5, External fire exposure curve, 6 Slow heating curve, 8 Measurement of radiation) |
| EN 1364-1 | Non-loadbearing elements – Part 1 Walls |
| EN 1364-2 | Non-loadbearing elements – Part 2 Ceilings |
| EN 1365-1 | Loadbearing elements – Part 1 Walls |
| EN 1365-2 | Loadbearing elements – Part 2 Floors and roofs |
| EN 1366-3 | Service installations – Part 3 Penetration seals |
| EN 1366-4 | Service installations – Linear joint seals |
| EN 1634-1 | Door and shutter assemblies, openable windows and elements of building hardware – Part 1: Fire resistance tests for door and shutter assemblies and openable windows. |
| EN 13381-4 | Test methods for determining the contribution of the fire resistance of structural members – Part 4: Applied passive protection to steel members |
| EN 13381-8 | Test methods for determining the contribution of the fire resistance of structural members – Part 8: Applied reactive protection to steel members |
| NFPA 251 | Standard methods of Tests of Fire Resistance of Building Construction and Materials |
| NFPA 252 | Standard methods of Fire Tests of Door Assemblies |
| ISO 834-1 | Elements of building construction – Part 1: General requirements |
| ISO 3008 | Door and shutter assemblies |
| ISO 3009 | Elements of building construction – Glazed elements |
| ISO 6944-1 | Fire containment – Elements of building construction – Part 1 Ventilation ducts |
| ISO 10294-1 | Fire dampers for air distribution systems – Part 1 Test method |
| ISO 10294-5 | Fire dampers for air distribution systems – Part 5 Intumescent fire dampers |
| SS 333 clause 5.3 | Fire dampers |
| SS 332 Annex E | Fire doors |
| SS 489 Annex A | Fire shutters |
| UL 9 | Standard for Fire Tests of Window Assemblies |
| UL 10B | Standard for Fire Tests of Door Assemblies |
| UL 10C | Standard for Positive Pressure Fire Tests of Door Assemblies |
| UL 263 | Standard for Fire Tests of Building Construction and Materials |
| UL 555 | Standard for Fire Dampers |
| UL 1479 | Standard for Fire Tests of Through-Penetration Firestops |
| UL 2079 | Standard for Tests for Fire Resistance of Building Joint systems |

International Code for Application of Fire Test Procedures (2010 FTP Code)

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Resolution MSC.307(88) – Annex 1 – Fire Test Procedures – Part 3 – Test for “A”, “B” and “F” Class Divisions

Note: Floor and roof testing dimensions limited to 4 m x 3 m, which is a deviation from UL, NFPA and ASTM standards

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A handwritten signature in black ink, appearing to read 'A. H. O. M. A.', is written over a light blue horizontal line.

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