Schedule to

CERTIFICATE OF ACCREDITATION



BRANZ Ltd Client Number 38

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Telephone 04 237-1170 www.branz.org.nz

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

Mr Paul Chapman	6.33
Dr Ian Cox-Smith	6.31
Mr Lukas Hersche	6.32
Mrs Sheng-Huei Huang	6.31
Mr Ed Soja	6.32, 6.33
Mr Roger Stanford	6.31
Mr Stephen Whatham	6.33
Mr 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 by means of a heat flow meter apparatus in accordance with ASTM C518 to the least uncertainties in thermal resistance (R) detailed below.

R (m²K/W) Least uncertainty of measurement

0.1 to 9.0 2 %

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

Thermal resistance of low-density segment and blanket-type mineral fibre insulation using test procedure ASTM C653 and test method ASTM C518.

Thickness and density of compressible fibrous insulation using test method ASTM C167 and the variations of AS/NZS 4859.1 appendix B.

Statistically adjusted thermal properties in accordance with AS/NZS 4859.1 section 2.3.3.5.

Specimen conditioned in accordance with AS/NZS 4859.1 section 2.3.3.3.

Adjusting thermal properties to a declared temperature in accordance with AS/NZS 4859.2 Clause 5.2

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

The following tests in accordance with the methods shown:

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)

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

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ISO Room test (e)

ISO 9705

Fire tests – Full scale room test for surface products

(and AS ISO 9705)

6.33 **Fire Resistance Tests**

The following tests in accordance with the methods shown:

ISO 834-1 Elements of building construction – Part 1: General requirements

Door and shutter assemblies ISO 3008

ISO 3009 Elements of building construction - Glazed elements

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

Electrical installations—Classification of the fire and mechanical **AS/NZS 3013**

performance of wiring system elements. Appendix C Fire Test

Method—Supports and Fixings

BS 476 Parts 20-24 Fire tests on Building Materials and Structures

BS EN 13381-4 Test methods for determining the contribution of the fire resistance of

structural members - Part 4: Applied passive protection to steel

members

BS EN 13381-8 Test methods for determining the contribution of the fire resistance of

structural members - Part 8: Applied reactive protection to steel

members

ISO 6944-1 Fire containment – Elements of building construction – Part 1

Ventilation ducts

SS 333 clause 5.3 Fire dampers SS 332 Annex E Fire doors SS 489 Annex A Fire shutters

Fire dampers for air distribution systems – Part 1 Test method ISO 10294-1 ISO 10294-5 Fire dampers for air distribution systems – Part 5 Intumescent fire

dampers

EN 1363-1 Fire resistance tests – Part 1: General requirements

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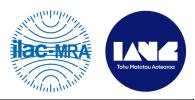
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EN 1363-2	Fire resistance tests – Part 2: Alternative and additional procedures (Clauses 5, External fire exposure curve, 6 Slow heating curve, 8 Measurement of radiation)
EN 1364-1	Non-loadbearing elements – Part 1 Walls
EN 1364-2	Non-loadbearing 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.
UL 9 UL 10B UL 10C UL 263 UL 555 UL 1479 UL 2079	Standard for Fire Tests of Window Assemblies Standard for Fire Tests of Door Assemblies Standard for Positive Pressure Fire Tests of Door Assemblies Standard for Fire Tests of Building Construction and Materials Standard for Fire Dampers Standard for Fire Tests of Through-Penetration Firestops Standard for Tests for Fire Resistance of Building Joint systems
NFPA 251	Standard methods of Tests of Fire Resistance of Building Construction and Materials
NFPA 252	Standard methods of Fire Tests of Door Assemblies
ASTM E119	Standard methods of Fire Tests of Building Construction and materials
ASTM E814	Fire Tests of Through-Penetration Fire stops

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