Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

Laboratory	BRANZ Ltd
Address	Private Bag 50908, Porirua, 5240 1222 Moonshine Road, RD 1, Porirua, 5381
Telephone	04 237-1170
URL	www.branz.org.nz
Authorised Representative	Mr Keith Clark Quality and Environment Manager
Client No.	38
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
Testing Services Summary	6.31 Thermal Properties of Materials 6.32 Reaction to Fire 6.33 Fire Resistance Tests
Signatories	Mr Paul Chapman 6.33 Mr Peter Collier 6.32 Dr Ian Cox-Smith 6.31 Mrs Sheng-Huei Huang 6.31 Mr Ed Soja 6.32, 6.33 Mr Roger Stanford 6.31 Mr Stephen Whatham 6.32 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 (m^2K/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 batt and blanket-type mineral fibre insulation using test procedure ASTM C653 and test method ASTM C518.

Thickness and density of blanket or batt thermal insulations using test method ASTM C167 and the variations of AS/NZS 4859.1 appendix B.

Statistically adjusted thermal properties in accordance with 4859.1 section 2.3.3.5.

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

(e) ISO Room test

ISO 9705 (and AS ISO 9705)	Fire tests – Full scale room test for surface products

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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
ISO 3008	Door and shutter assemblies
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
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
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
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

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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	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
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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