Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

Window Engineering Consultants **Client Number 236**

PO Box 100340, North Shore, Auckland, 0745
11 Olive Road, Penrose, Auckland, 1061

Telephone 09 444-4944 **www.thermosash.co.nz**

Authorised Representative
Mr Richard Coupe
National Operations Director

Programme
Mechanical Testing Laboratory

Accreditation Number 265 **Initial Accreditation Date** 20 September 1985

Conformance Standard
ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

4.41	Windows, Doors and Building Envelopes
4.42	Assemblies and Structures

Key Technical Personnel

Mr Alex Blakeley	4.41, 4.42
Mr John Burgess	4.41 (a)(b)
Mr Harrison Fulton	4.41 (c)

IANZ; Building 7, Central Park, 660-670 Great South Road, Ellerslie, Auckland 1051
Private Bag 28908, Remuera, Auckland 1541
Tel 09-525 6655 info@ianz.govt.nz ***ianz.govt.nz***

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4.41 Windows, Doors and Building Envelopes

(a) Windows and Doors

The test requirements defined in NZS 4211:2008, SNZ TS 4211:2022 and AS 2047:2014 in accordance with the test methods of AS/ NZS 4420.1:2016 and AS/NZS 4284:2008

The following tests in accordance with AS/NZS 4420.1:2016

Method 2	Test sample, preparation for tests, the test sequence
Method 3	Deflection test
Method 4	Operating force test
Method 5	Air infiltration test
Method 6	Water penetration resistance test
Method 7	Ultimate strength test

The following test methods in accordance with AS/NZS 4284:2008 as required by SNZ TS 4211:2022

Clause 8.6	Water penetration by cyclic pressure (and as modified by E2/VM1 and EM-7)
Clause 8.9	Seismic test (and as modified by BRANZ EM-7)

(b) Facades and Curtain Walls

The following tests in accordance with AS/NZS 4284:2008

Clause 8.2	Preliminary tests
Clause 8.3	Structural test at Serviceability Limit State
Clause 8.4	Air infiltration test
Clause 8.5	Water penetration by static pressure (and as modified by E2/VM1)
Clause 8.6	Water penetration by cyclic pressure (and as modified by E2/VM1)
Clause 8.8	Structural strength at Ultimate Limit state
Clause 8.9	Seismic test
Clause 8.10	Seal degradation test

The following tests in accordance with ASTM methods

E283-19	Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
E330-14(2021)	Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure difference
E331-00(2023)	Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure difference

(c) Building Envelopes (on-site)

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The following on-site tests performed at specified premises in accordance with Window and Glass Association NZ procedures for testing Curtain Walls, Windows and Façade Elements.

WGANZ 501
WGANZ 502
WGANZ 503

4.42 Assemblies and Structures

(j) Other assemblies

The following tests specified in AS/NZS 4223.3:2016, in accordance with following methods:

ASTM E935-13	Performance of Permanent Metal Rails and Rails of Buildings
ASTM E2353-16	Performance of Glazing in Permanent Railing Systems, Guards, and Balustrades

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