

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

Approved Signatories

Mr Alex Blakeley 4.41, 4.42
Mr John Burgess 4.41

Operations Manager Authorisation:		Issue 32	Date: 11/05/21	Page 1 of 3
--------------------------------------	---	----------	----------------	-------------



Window Engineering Consultants
 Mechanical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 265

4.41 Windows, Doors and Building Envelopes

(a) Windows and Doors

The test requirements defined in NZS 4211:2008 in accordance with the test methods of AS/NZS 4420.1:2016

The test requirements defined in AS 2047:2014 in accordance with the test methods of AS/NZS 4420.1:2016

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

- Method 1 Test sample, preparation for tests, the test sequence
- Method 2 Deflection test
- Method 3 Operating force test
- Method 4 Air filtration test
- Method 5 Water penetration resistance test
- Method 6 Ultimate strength test

(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

- E283-04(2012) Air infiltration
- E330-14 Structural performance of exterior windows, doors, skylights and curtain walls by Uniform Static Air Pressure difference
- E331-00(2016) Water penetration of exterior windows, skylights, doors and curtain walls by Uniform Static Air Pressure difference

4.42 Assemblies and Structures

(j) Other assemblies

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

Operations Manager Authorisation:		Issue 32	Date: 11/05/21	Page 2 of 3
--------------------------------------	---	----------	----------------	-------------



Window Engineering Consultants
Mechanical Testing Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 265

ASTM E935-13	Performance of Permanent Metal Rails and Rails of Buildings
ASTM E2353-16	Performance of Glazing in Permanent Metal Rails and Rails of Buildings

Uncontrolled copy printed from the internet

Operations Manager
Authorisation:

Issue 32

Date: 11/05/21

Page 3 of 3