



CERTIFICATE OF ACCREDITATION

This is to attest that

CONSTRUCTION CONSULTING LABORATORY WEST

4751 WEST STATE STREET, SUITE B
ONTARIO, CALIFORNIA 91762, U.S.A.

Testing Laboratory TL-226

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 11, 2020



A handwritten signature in black ink, reading "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

CONSTRUCTION CONSULTING LABORATORY WEST

www.ccl-west.com

Contact Name Jack Jackson

Contact Phone +1-909-591-1789

Accredited to ISO/IEC 17025:2017

Effective Date February 11, 2020

Mechanical	
1997 UBC Standard 15-7	Automatic smoke and heat vents (sections 15.704 and 15.704.5)
ICC ES AC331	Smoke and heat vents (test methods referenced in sections 2.0-3.5 and 4.0—4.1.4)
Physical	
AAMA 501.2	Quality assurance and diagnostic water leakage field check of installed storefronts, curtain walls, and sloped glazing systems
AAMA 502	Voluntary specification for field testing of newly installed fenestration products
AAMA 503	Voluntary specification for field testing of newly installed storefronts, curtain walls, and sloped glazing systems
AAMA 513	Standard laboratory test method for determination of forces and motions required to activate operable parts of operable windows and doors in accessible spaces
AAMA 910	Voluntary "Life Cycle" specifications and test methods for aw class architectural windows and doors
AAMA 1304	Voluntary specification for forced entry resistance of side-hinged door systems
ANSI Z97.1	Safety glazing materials used in buildings - safety performance specifications and methods of test (Only Sections 5.1, 5.2 and 5.3)
ASTM D618	Standard practice for conditioning plastics for testing (Procedure A)
ASTM E283	Standard test method for determining rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen
ASTM E330/E330M	Standard test method for structural performance of exterior windows, doors, skylight and curtain walls by uniform static air pressure difference
ASTM E331	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by uniform static air pressure difference
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference

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ASTM E783	Standard test method for field measurement of air leakage through installed exterior windows and doors
ASTM E1105	Standard test method for field determination of water penetration of installed exterior windows, skylights, doors, and curtain walls, by uniform or cyclic static air pressure difference
ASTM E1646	Standard test method for water penetration of exterior metal roof panel systems by uniform static air pressure difference
ASTM E1680	Standard test method for rate of air leakage through exterior metal roof panel systems
CPSC- 16 CRF 1201	Safety standard for architectural glazing materials
ICC ES AC92	Polymer-based, polymer-modified and high-pressure laminate exterior and interior wall cladding (test methods referenced in sections 4.7 only)
Structural	
AAMA 501.1	Standard test method for water penetration of windows, curtain walls and doors using dynamic pressure
AAMA 501.4	Recommended static test method for evaluating curtain wall and storefront systems subject systems subjected to seismic and wind induced interstory drifts
AAMA 501.5	<i>Standard</i> laboratory procedure for evaluation of thermal cycling effects on large exterior wall windows
AAMA 501.7	Recommended static test method for evaluating windows, window wall, curtain wall and storefront systems subjected to vertical inter-story movements
ASTM E1592	Standard test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference
CAN/CGSB-12.1	Tempered or laminated safety glass (sections 7.2.2 and 7.2.3)
ICC ES AC16	Plastic glazed skylights (test methods referenced in sections A2.0-A2.4, A3.1-A3.3, A4.0-A4.3.6, B2.0-B2.3.3, B3.6, B4.0-B4.1.12.4, B4.6-B4.6.5, B5.0-B5.1.10 and B5.5-B5.5.3)
ICC ES AC17	Glass glazed unit skylights and sloped glass glazing (test methods referenced in sections A3.0 and B3.0)

CGSB- Canadian General Standard Board

UBC- The Uniform Building Code