

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 222

Legal Name of Accredited Laboratory: **Canadian Building Envelope Science and Technology**

Location Name or Operating as (if applicable): CAN-BEST TESTING LABORATORY

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SCC File Number:	15226
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Mechanical/Physical
Initial Accreditation:	1995-11-27
Most Recent Accreditation:	2021-06-03
Accreditation Valid to:	2023-11-27

CONSTRUCTION

Building Constructions and Prefabricated Buildings

ASTM C1201/C1201M	Structural Performance of Exterior Dimension Stone Cladding Systems by Uniform Static Air Pressure Difference
ASTM C1279	Standard Test Method for Non-Destructive Photoelastic Measurement of Edge and Surface Stresses in Annealed, Heat-Strengthened, and Fully Tempered Flat Glass

ASTM C1363	Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by means of a Hot Box Apparatus.
ASTM E1155*	Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers
ASTM E1592	Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform 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 E196*	Standard Practice for Gravity Load Testing of Floors and Low Slope Roofs
ASTM E2178	Standard Test Method for Air Permeance of Building Materials
ASTM E2273	Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies
ASTM E2357	Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
ASTM E455	Standard Method for Static Load Testing of Framed Floor or Roof Diaphragm Constructions for Buildings
ASTM E529	Standard Guide for Conducting Flexural Tests on Beams and Girders for Building Construction
ASTM E564	Standard Practice for Static Load Test for Shear Resistance of Framed Walls for Buildings
ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
ASTM E73	Standard Practice for Static Load Testing of Truss Assemblies
ASTM E779*	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization
ASTM E894	Standard Test Method for Anchorage of Permanent Metal Railing Systems and Rails for Buildings
ASTM E907	Standard Test Methods for Field Testing Uplift Resistance of Adhered Membrane Roofing Systems
ASTM E935	Standard Test Method for Performance of Permanent Metal Railing Systems and Rails for Buildings
CSA A500	Building Guards Only for: Section 5.0

ULC S-716.1	Standard for Exterior Insulation Finish System(EIFS)–Materials & Systems Except for: 5.3.2. Infrared Analysis, 5.4.2. Infrared Analysis, 5.5.4 Fire Resistance Testing.
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Construction Materials : (Excluding textile products)

(Excluding Textile Products)

ASTM D4798	Standard Test Method for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Xenon-Arc Method)
ASTM D897	Standard Test Method for Tensile Properties of Adhesive Bonds
ASTM E96	Standard Test Methods for Water Vapour Transmission of Materials
ASTM D5034	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
ASTM E2098	Standard Test Method for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to a Sodium Hydroxide Solution.
ASTM E661	Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads
ASTM G154	Standard Practice for Operating Fluorescent Light Apparatus UV Exposure of Non-metallic Materials.
ASTM G155	Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials
CSA 0325	Construction sheathing, Only for: Clause 7.1 (Concentrated Static and Impact Load Tests), Clause 7.2 (Uniform Load Test)
ASTM C373	Determination of Water Absorption and Associated Properties by Vacuum Method for Pressed Ceramic and Glass Tiles
ASTM C1026	Measuring the Resistance of Ceramic and Glass Tiles to Freeze-Thaw Cycling
ASTM C1505	Determination of Breaking Strength and Modulus of Rupture of Ceramic Tiles and Glass Tiles by Three-Point Loading

(Windows, Doors and Curtain Walls)

AAMA/WDMA/CSA 101/I.S.2/A440	NAFS - North American Fenestration Standard/Specification for windows, doors, and skylights Except for: Section 10
AAMA/WDMA/CSA 101/I.S.2/A440-11	NAFS - North American Fenestration Standard/Specification for windows, doors, and skylights Except for: Section 10 and 11
AAMA/WDMA/CSA 101/I.S.2/A440-17	NAFS - North American Fenestration Standard/Specification for windows, doors, and skylights Except for: Section 10 and 11
CSA A440S1-17	Canadian Supplement to AAMA/WDMA/ CSA 101/I.S.2/A440-11, NAFS — North American Fenestration Standard/ Specification for windows, doors, and skylights
AAMA/WDMA/CSA 101/I.S.2/A440-08	NAFS - North American Fenestration Standard/Specification for windows, doors, and skylights Except for: sections 6.2.5.2 to 6.2.5.7; 6.3; 7.2; 7.3; 7.5 to 7.7; and 7.11
A440S1-09	Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS — North American Fenestration Standard/Specification for windows, doors, and skylights
AMCA 500-L	Laboratory Methods of Testing Louvers for Rating Only for: section 8.2
ANSI Z97.1	Safety Glazing Materials used in Buildings- Safety Performance Specifications and Methods of Test
ASTM C1048	Standard Specification for Heat – Strengthened and Fully Tempered Flat Glass
ASTM C1199 (with ASTM E1423)	Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods / Standard Practice for Determining Steady State Thermal Transmittance of Fenestration Systems
ASTM E1105*	Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference
ASTM E 1233	Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Cyclic Air Pressure Differential
ASTM E1423 (with ASTM C1199)	Standard Practice for Determining Steady State Thermal Transmittance of Fenestration Systems/Standard Test Method

	for Measuring the Steady State Thermal Transmittance of Fenestration Using Hot Box Methods
ASTM E1424	Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure and Temperature Differences Across the Specimen
ASTM E283	Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen
ASTM E330	Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls and Doors by Uniform Static Air Pressure Difference
ASTM E331	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls and Doors by Uniform Static Air Pressure Difference
ASTM E547	Standard Test Method for Water Penetration Resistance of Exterior Window, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Differential
ASTM E576	Standard Test Method for Frost/Dew Point of Sealed Insulating Glass Units in the Vertical Position
ASTM E783*	Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors
ASTM E987	Standard Test Methods for Deglazing Force of Fenestration Products
ASTM E998	Standard Test Method for Structural Performance of Glass in Windows, Curtain Walls and Doors Under the Influence of Uniform Static Loads by Nondestructive Methods
ASTM E2188	Standard Test Method for Insulating Glass Unit Performance
ASTM E2189	Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units
ASTM E2190	Standard Specification for Insulating Glass Unit Performance and Evaluation
ASTM E2353	Standard Test Methods for Performance of Glazing in Permanent Railing Systems; Guards & Balustrades
ASTM E2649	Standard Test Method for Determining Argon Concentration in Sealed Insulating Glass Units Using Spark Emission Spectroscopy
ASTM F1233	Standard Test Method for Security Glazing Materials and Systems, Non Ballistic Testing Only

ASTM F476	Standard Test Method for Security of Swinging Door Assemblies
ASTM F588	Standard Test Method for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact
ASTM F842	Standard Test Method for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact
ASTM F2090	Standard Specification for Window Fall Prevention Devices With Emergency Escape (Egress) Release Mechanisms
ASTME997	Standard Test Method for Evaluating Glass Breakage Probability Under the Influence of Uniform Static Loads by Proof Load Testing
CAN/CGSB 82-GP-3M	Door, Aluminum, Combination Storm and Screen
CAN/CGSB 82-GP-4M	Door, Steel, Combination Storm and Screen
CAN/CGSB CAN2-12.1	Tempered or Laminated Safety Glass
CAN/CGSB CAN2-12.2	Flat, Clear Sheet Glass
CAN/CGSB CAN2-12.8	Insulating Glass Units Including Paragraph 3.6.3 "Argon Gas Concentration - GC Method"
CAN/CGSB CAN2-12.9	Spandrel Glass
CAN/CGSB-63.14	Plastic Skylights
CAN/CGSB-82.1	Sliding Doors
CAN/CGSB-82.5	Insulated Steel Doors
CAN/CSA A440	Window, door, and skylight installation
CAN/CSA A440.2-14	Fenestration Energy Performance
ASTM E2268	Standard Test Method for Water Penetration of Exterior Windows, Skylights, and Doors by Rapid Pulsed Air Pressure Difference

Number of Scope Listings: 78

Notes:

Methods noted with (*) are on-site testing

ISO/IEC 17025: General Requirements for the Competence of Testing and Calibration Laboratories

AAMA: American Architectural Manufacturers Association

ASTM: American Society for Testing and Materials

CSA: Canadian Standards Association

ULC: Underwriters Laboratories Canada

WDMA: Window & Door Manufacturers Association



This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

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