Miami-Dade County, Florida
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISON
PRODUCT CONTROL SECTION
11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
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Laboratory Certificate

This certifies that Element Materials Technology Canada, Inc. located at 2395 Speakman Drive, Mississauga, ON L5K 1B3, Canada is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS301-94, and is Certified to perform the following tests:

Listed in: American Association for Laboratory Accreditation Certificates No. 6524.01, 6524.02 & 6524.03

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Department of Regulatory and Economic Resources per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

Samuel S. Shilesh, P.E.

This Certification and Registration Approved: **April 14, 2022**
This Certification and Registration Expires : **November 20, 2023**

Certification No. : **22-0120.02** *Revises: 21-0729.01*

Helmy A. Makar, P.E., M.S..
Product Control Section Supervisor
Product Control Section

Americo Segura, M.S., CGC
Quality Assurance Unit Supervisor
Product Control Section

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CONSTRUCTION MATERIALS TESTING

Valid To: October 31, 2022 Certificate Number: 6524.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following tests on Building Products:

Test Method:	**Test Description:**
AISI S905	Standard test methods for mechanically fastened cold formed steel connections
AISI S905	Standard test methods for mechanically fastened cold formed steel connections
AISI S913	Test standard for hold-downs attached to cold-formed steel structural framing
AISI S914	Test standard for joist connectors attached to cold-formed steel structural Framing
ASTM C39	Standard test method for compressive strength of cylindrical concrete specimens
CSSBI S2	Criteria for the testing of composite slabs
ICC-ES AC43	Steel deck roof and floor systems – only Section 3.2 – web crippling test
ICC-ES AC46	Cold-formed steel framing members – only Section 4.3 – web crippling test
ICC-ES AC86	Cold-formed steel framing members-interior non load-bearing wall assemblies
ICC-ES AC261	Connectors used with cold-formed steel structural numbers – only Sections 3.0 and 4.0
ICC-ES AC379	Fastening systems for use with re-entrant- type steel deck panel profiles – only Section 4.0
SDI T-CD	Test Standard for composite steel deck- slabs
Building Envelope & Fenestration:	
AAMA/WDMA/CSA 101/I.S.2/A440	Specification for windows, doors, and skylights
AAMA 501.1	Standard test method for water penetration of windows, curtain walls and doors using dynamic pressure
AAMA 501.5	Test method for thermal cycling of exterior walls

Test Method:	**Test Description:**
AAMA 503	Voluntary specification for field testing of newly installed storefronts, curtain walls and sloped glazing systems (metal curtain wall section 1 the following tests only; wind loads, dead loads, uniform structural loads, air leakage, water penetration, water spray test without air pressure difference)
AAMA 508	Voluntary test method and specification for pressure equalized rain screen wall cladding systems
AAMA 509	Voluntary test and classification method for drained and back ventilated rain screen wall cladding systems
AAMA 711	Voluntary specification for self-adhering Flashing used for installation of exterior wall fenestration products
AAMA 714	Voluntary specification for liquid applied Flashing used to create a water-resistive seal around exterior wall openings in buildings
AAMA 910	Voluntary "life cycle" specifications and test methods for aw class architectural windows and doors
AAMA 920	Specification for operating cycle performance of active side-hinged exterior door slabs
AAMA 1304	Voluntary specification for forced entry resistance of side-hinged door systems
AAMA 1503	Voluntary test method for thermal transmittance and condensation resistance of windows, doors and glazed wall sections
ANSI Z97.1	Standard for safety glazing materials used in buildings safety performance specifications and methods of test
ASTM C1199	Standard test method for measuring the steady-state thermal transmittance of fenestration systems using hot box methods (except C177, C236, C976, and C1114, BS874 part 3, sections 3.1 and 3.2, ISO 8990, and ISO 12567)
ASTM C1201/C1201M	Standard test method for structural performance of exterior dimension stone cladding systems by uniform static air pressure difference
ASTM C1363	Standard test method for thermal performance of building materials and envelope assemblies by means of a hot box apparatus (except C177, C1114, C236 and C976, ISO 12567, ISO 8990)
ASTM C1401	Standard guide for structural sealant glazing (except C99, C510, C719, C794, C880, C1087, C1135, C1248, C1253, C1265, C1294, D2203)
ASTM E72	Standard test methods of conducting strength tests of panels for building construction
ASTM E196	Standard practice for gravity load testing of floors and low slope roofs
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, skylights and curtain walls by uniform static air pressure difference (except E998)
ASTM E331	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by uniform static air pressure difference
ASTM E546	Standard test method for frost/dew point of sealed insulating glass units (except E77)
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference (except E631)

Test Method:	**Test Description:**
ASTM E576	Standard test method for frost/dew point of sealed insulating glass units in the vertical position (except E77)
ASTM E773	Standard test method for accelerated weathering of sealed insulating glass units
ASTM E774	Standard specification for the classification of the durability of sealed insulating glass units (except E1887)
ASTM E783	Standard test method for field measurement of air leakage through installed exterior windows and doors
ASTM E894	Standard test method for anchorage of permanent metal railing systems and rails for buildings (except E488)
ASTM E907	Standard test method for field testing uplift resistance of adhered membrane roofing systems
ASTM E935	Standard test methods for performance of permanent metal railing systems and rails for buildings
ASTM E985	Standard specification for permanent metal railing systems and rails for buildings
ASTM E987	Standard test methods for deglazing force of fenestration products
ASTM E997	Standard test method for evaluating glass breakage probability under the influence of uniform static loads by proof load testing
ASTM E1017	Standard specification for generic performance requirements for exterior residential window assemblies
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 E1233/E1233M	Standard test method for structural performance of exterior windows, doors, skylights, and curtain walls by cyclic air pressure differential
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 E1592	Standard test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference
ASTM E1677	Standard specification for air barrier (AB) material or system for low-rise framed building walls
ASTM E2068	Standard test method for determination of operating force of sliding windows and doors
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 (except C1265)
ASTM E2273	Standard test method for determining the drainage efficiency of exterior insulation and finish systems (EIFS) clad wall assemblies
ASTM E2353	Standard test methods for performance of glazing in permanent railing systems, guards, and balustrades (except ASTM standard E2025)
ASTM E2357	Standard test method for determining air leakage of air barrier assemblies
ASTM E2358	Standard specification for the performance of glass in permanent glass railing systems, guards, and balustrades (except ASTM standard E2025)

Test Method:	**Test Description:**
ASTM E2485/E2485M	Standard test method for freeze/thaw resistance of exterior insulation and finish systems (EIFS) and water resistive barrier coatings
ASTM E2486/E2486M	Standard test method for impact resistance of class PB and PI exterior insulation and finish systems (EIFS)
ASTM E2568	Standard specification for PB exterior insulation and finish systems (except E2486, E119, E2134, E2485 and NFPA 285)
ASTM E2570	Standard test methods for evaluating water-resistive barrier (WRB) coatings used under exterior insulation and finish systems (EIFS) or EIFS with drainage (except E2134, E2485 and AATCC 127)
ASTM E2649	Standard test method for determining argon concentration in sealed insulating glass units using spark emission spectroscopy
ASTM F588	Standard test methods for measuring the forced entry resistance of window assemblies, excluding glazing impact (except glazing impact)
ASTM F842	Standard test methods for measuring the forced entry resistance of sliding door assemblies, excluding glazing impact (except glazing impact)
ASTM F1233	Standard test method for security glazing materials and systems (except E998 and E1886)
BS EN 14179-1	Glass in building - heat soaked thermally toughened soda lime silicate safety glass - definition and description (section 10)
CAN/CGSB 12.1-M	Tempered or laminated safety glass
CAN/CGSB 12.2-M	Flat - clear sheet glass
CAN/CGSB 12.3-M	Flat - clear float glass
CAN/CGSB 12.5-M	Mirrors - silvered
CAN/CGSB 12.8-M	Insulating glass units
CAN/CGSB 12.11-M	Wired safety glass
CAN/CGSB 12.13-M	Patterned glass
CAN/CGSB 12.20-M	Structural design of glass for buildings
CAN/CGSB 82.1-M	Sliding doors
CAN/CGSB 82.5-M	Insulated steel doors
CAN/CGSB 82.6-M	Doors, mirrored glass, sliding or folding – wardrobe
CAN/CSA-A440.2	Fenestration energy performance
CAN/ULC S716.1	Standard for exterior insulation and finish systems (EIFS) – materials and systems
CAN/ULC S742	Standard for air barrier assemblies – specification
CGSB 82 GP-3M	Doors, aluminum, combination storm and screen
CGSB 82 GP-4M	Doors, steel, combination storm and screen
CPSC 16 CFR 1201	Commercial practices - safety standard for architectural glazing materials

Test Method:	**Test Description:**
CSA A123.21	Standard test method for the dynamic wind uplift resistance of membrane-roofing systems
CSSBI 12M	Standard for composite steel deck
GANA Section 1	Glass Association of North America Tempering Division – Engineering Standards Manual
ICC ES AC07	Special roofing systems (test methods referenced in section 4.0)
ICC ES AC39	Walking decks (test methods referenced in sections 3.0 and 4.0)
ICC ES AC174	Deck board span ratings and guardrail systems
ICC ES AC213	Glass shear walls and diaphragms for patio covers (test methods referenced in section 4.0)
JIS K 6785	Profiles for rigid polyvinyl chloride (PVC) window
NAFS-1	Voluntary Performance Specification for Windows, Skylights and Glass Doors
NFRC 100	Procedure for determining fenestration product u-factors
NFRC 101	Procedure for determining thermophysical properties of materials for use in NFRC-approved software
NFRC 102	Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems
NFRC 200	Procedure for determining fenestration product solar heat gain coefficient and visible transmittance at normal incidence
NFRC 201	Procedure for interim standard test method for measuring the solar heat gain coefficient of fenestration systems using calorimetry hot box methods
NFRC 202	Procedure for determining translucent fenestration product visible transmittance at normal incidence (except ASTM Standards C177, C1114, C1371, E903, E1225, E1530, E1933 and E1952)
NFRC 300	Test method for determining the solar optical properties of glazing materials and systems
NFRC 400	Procedure for determining fenestration product air leakage
NFRC 500	Procedure for determining fenestration product condensation resistance values
NFRC 501	User guide to the procedure for determining fenestration product condensation resistance rating value
Physical Characterization:	
ASTM C67	Standard test methods for sampling and testing brick and structural clay tile
ASTM C165	Standard test method for measuring compressive properties of thermal insulations (except for E4, E177 and E240)
ASTM C272/C272M	Standard test method for water absorption of core materials for sandwich constructions (except C271)
ASTM C297/C297M	Standard test method for flatwise tensile strength of sandwich constructions (except D3039/D3039M, C792, D2734, D3171, D5229/D5229M and E4)
ASTM C367/C367M	Standard test methods for strength properties of prefabricated architectural acoustical tile or lay-in ceiling panels

Test Method:	**Test Description:**
ASTM C473	Standard test methods for physical testing of gypsum panel products (except D3285 and E4)
ASTM C1028	Standard test method for determining the static coefficient of friction of ceramic tile and other like surfaces by the horizontal dynamometer pull-meter method
ASTM C1185	Standard test methods for sampling and testing non-asbestos fiber-cement flat sheet, roofing and siding shingles, and clapboards
ASTM C1382	Standard test method for determining tensile adhesion properties of sealants when used in exterior insulation and finish systems (EIFS) joints (except C1135)
ASTM C1396/C1396M	Standard specification for gypsum board (except D3272 and E119)
ASTM D1037	Standard test methods for evaluating properties of wood-base fiber and particle panel materials (except C273, D143, D905, D2395, D3043, D3363, D3501 and E4)
ASTM D1970/D1970M	Standard specification for self-adhering polymer modified bituminous
ASTM D4073	Standard test method for tensile-tear strength of bituminous roofing membranes
ASTM D4216	Standard specification for rigid poly (vinyl chloride) (PVC) and related PVC and chlorinated poly (vinyl chloride) (CPVC) building products compounds
ASTM D4226	Standard test methods for impact resistance of rigid poly (vinyl chloride) (PVC) building products (except D178 and D374)
ASTM D4434/D4434M	Standard specification for poly (vinyl chloride) sheet roofing (except ASTM standards D5602 and D5635)
ASTM D4495	Standard test method for impact resistance of poly (vinyl chloride) (PVC) rigid profiles by means of a falling weight
ASTM D4541	Standard test method for pull-off strength of coatings using portable adhesion testers
ASTM D5147/D5147M	Standard test methods for sampling and testing modified bituminous sheet material (except ASTM standards D95, D146, D4977, and D5636)
ASTM D5206	Standard test method for windload resistance of rigid plastic siding
ASTM D5385/D5385M	Standard test method for hydrostatic pressure resistance of waterproofing membranes
ASTM D6109	Standard test methods for flexural properties of unreinforced and reinforced plastic lumber and related products (except D5947)
ASTM D6662	Standard specification for polyolefin-based plastic lumber decking boards (except D6112, D6341 and E108)
ASTM D7031	Standard guide for evaluating mechanical and physical properties of wood-plastic composite products (except C1308, D1413, D143, D2017, D2047, D2394, D2395, D2481, D3345, D4442, D4761, D5379, D5764, E108 and F1679, AWPA standards E1, E7 and E10)
ASTM D7032	Standard specification for establishing performance ratings for wood-plastic composite and plastic lumber deck boards, stair treads, guards, and handrails (except D198, D1413, D2017, D2047 D2394, D3345, D4761, D5764, E108, and F1679)
ASTM E661	Standard test method for performance of wood and wood-based floor and roof sheathing under concentrated static and impact loads

Test Method:	**Test Description:**
ASTM E2098/E2098M	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 E2134	Standard test method for evaluating the tensile-adhesion performance of an exterior insulation and finish system (EIFS)
ASTM E2178	Standard test method for air permeance of building materials
ASTM E2321	Standard practice for use of test methods for determining the water vapor transmission (WVT) of exterior insulation and finish systems (EIFS)
ASTM E2322	Standard test method for conducting transverse and concentrated load tests on panels used in floor and roof construction
ASTM E2359/E2359M	Standard test method for field pull testing of an in-place exterior insulation and finish system clad wall assembly
ASTM F137	Standard test method for flexibility of resilient flooring materials with cylindrical mandrel apparatus
ASTM F386	Standard test method for thickness of resilient flooring materials having flat surfaces
ASTM F970	Standard test method for static load limit (except F1914 and F387)
ASTM F1066	Standard specification for vinyl composition floor tile (except ASTM standards F925, F1265, F1304, F1514, F1914, F2055, F2199 and ANSI/ASQC)
ASTM F1303	Standard specification for sheet vinyl floor covering with backing
ASTM F1344	Standard specification for rubber floor tile (except ASTM standards D2240, D3389, F373, F410, F511, F925, F1484, F1514, F2055, F2199 and ANSI/ASQC Z1.4)
ASTM F1700	Standard specification for solid vinyl floor tile (except ASTM standards F373, F925, F1514, F1515, F1914, F2055, F2199 and ANSI/ASQC Z1.4)
ASTM F1913	Standard specification for vinyl sheet floor covering without backing (except ASTM standards F410, F925, F1514, F1515, F1914; ANSI/ASQC Z1.4)
BS EN 12430	Thermal insulating products for building applications - determination of behaviour under point load
CAN/CGSB 37.54-M	Polyvinyl chloride roofing and waterproofing membrane (except ASTM standards G53, and D1790)
CAN/CGSB 37.58-M	Membrane, elastomeric, cold-applied liquid, for non-exposed use in roofing and water proofing
CAN/CGSB 41.24	Rigid vinyl siding - soffits and fascia
CAN/CGSB 51.32	Sheathing - membrane, breather type (except ASTM standard D828)
CAN/CGSB 51.33-M	Vapour barrier sheet, excluding polyethylene, for use in building construction (except ASTM standard D1709 and ISO 1923)
CAN/CGSB 51.34-M	Vapour barrier - polyethylene sheet for use in building construction (except ASTM standard D1709, and ISO 1923)
CAN/CSA-A82.20.2-M	Physical Testing of Gypsum and Gypsum Plasters
CAN/CSA A370	Connectors for masonry
CAN/ULC S741	Standard for air barrier materials – specification

Test Method:	**Test Description:**
CSGB 37-GP-52M	Roofing and waterproofing membrane, sheet applied, elastomeric (except ASTM standard D3041)
CGSB 37-GP-54M	Roofing and waterproofing membrane - sheet-applied – flexible - polyvinyl chloride standard
CGSB 37-GP-56M	Membrane, modified, bituminous, prefabricated, and reinforced for roofing (except sections 7.2.6 and 7.2.10)
CGSB 75.1-M88	Tile - ceramic (section 7.2.7, Fed. spec. L-F-001641)
CKCA Standard	Construction and Material Testing Standard for Kitchen Cabinets and Vanities
GPD 2	(except 5.3, 5.5, 6.19, 7.1, 9.2.4, 9.2.6, 9.3.2, 9.3.3, 9.5, and 9.6.1)
GPD 6	(except 7.4, 7.6, and 7.7)
GPD 10	(except 5.13, 6.1.1, and 6.1.3)
ICC ES AC38	Water-resistive barriers (test methods referenced in sections 3.3.4)
ICC ES AC48	Self-adhered roof underlayments for use as ice barriers (test methods referenced in section 4.0)
ICC ES AC71	Foam plastic sheathing panels used as weather-resistive barriers (test methods referenced in section 3.0)
ICC ES AC114	Rigid polyethylene, below-grade, dampproofing and wall waterproofing material (test methods referenced in section 4.0)
ICC ES AC168	Unplasticized Poly Vinyl Chloirde (UPVC) Siding with an Expanded Cellular Core and Rigid Facing (Test methods referenced in section)
ICC ES AC310	Water-resistive membranes factory-bonded to wood-based structural sheathing, used as water-resistive barriers (test methods referenced in section 4.0)
ICC ES AC342	Vapor permeable membrane used with concealed attics and roof spaces (test methods referenced in section 3.0)
Thermal Properties	
ASTM C209	Standard test methods for cellulosic fiber insulating board (except C177 and C1114)
ASTM C335/C335M	Standard test method for steady-state heat transfer properties of pipe insulation (except C177, C250 and ISO 8497)
ASTM C356	Standard test method for linear shrinkage of preformed high-temperature thermal insulation subjected to soaking heat (except C210)
ASTM C411	Standard test method for hot-surface performance of high-temperature thermal insulation
ASTM C421	Standard test method for tumbling friability of preformed block-type and preformed pipe-covering-type thermal insulation
ASTM C447	Standard practice for estimating the maximum use temperature of thermal insulations (except C177 and C1621)
ASTM C518	Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus (except C177, C236, C976 and C1114, and ISO 8301)
ASTM C520	Standard test methods for density of granular loose fill insulations
ASTM C533	Standard specification for calcium silicate block and pipe thermal insulation (except C177, C795, C1114, C1616 and C1617)

Test Method	Test Description
ASTM C534/C534M	Standard specification for preformed flexible elastomeric cellular thermal insulation in sheet and tubular form (except C177, C692, C871 and C1114)
ASTM C547	Standard specification for mineral fiber pipe insulation (except C177, UL 723 and NFPA 255)
ASTM C553	Standard specification for mineral fiber blanket thermal insulation for commercial and industrial applications (except C177, C1114 and C1617)
ASTM C578	Standard specification for rigid, cellular polystyrene thermal insulation
ASTM C591	Standard specification for unfaced preformed rigid cellular polyisocyanuratethermal insulation (except C177, C871, C1114 and D2856)
ASTM C592	Standard specification for mineral fiber blanket insulation and blanket-type pipe insulation (metal-mesh covered) (industrial type)
ASTM C610	Standard specification for molded expanded perlite block and pipe thermal insulation (except C177)
ASTM C612	Standard specification for mineral fiber block and board thermal insulation (except C177, C1338 and C1617)
ASTM C653	Standard guide for determination of the thermal resistance of low-density blanket-type mineral fiber insulation (except C177 and C1114)
ASTM C656	Standard specification for structural insulating board, calcium silicate (except C177)
ASTM C665	Standard specification for mineral-fiber blanket thermal insulation for light frame construction and manufactured housing (except C177)
ASTM C687	Standard practice for determination of thermal resistance of loose-fill building insulation (except C177 and C1114)
ASTM C726	Standard specification for mineral wool roof insulation board (except C177, D482, E2058 and ISO 1716)
ASTM C764	Standard specification for mineral fiber loose-fill thermal insulation
ASTM C991	Standard specification for flexible fibrous glass insulation for metal buildings (except C177 and C1258)
ASTM C1029	Standard specification for spray-applied rigid cellular polyurethane thermal insulation (except C177, C236 and D2856)
ASTM C1101/C1101M	Standard test methods for classifying the flexibility or rigidity of mineral fiber blanket and board insulation
ASTM C1104/C1104M	Standard test method for determining the water vapor sorption of unfaced mineral fiber insulation
ASTM C1289	Standard specification for faced rigid cellular polyisocyanurate thermal insulation board
ASTM C1303/C1303M	Standard test method for predicting long-term thermal resistance of closed-cell foam insulation
CAN/CSGB 4.2 No. 78.1	Textile test methods - thermal protective performance of materials for clothing
CAN/ULC S701	Standard for thermal insulation, polystyrene, boards and pipe covering (except ASTM standard C177)
CAN/ULC S702	Standard for mineral fibre thermal insulation for buildings (except C177 and CAN/ULC S129)
CAN/ULC S703	Standard for cellulose fibre insulation (CFI) for buildings (except ASTM standard C177, and CAN/ULC S 130)
CAN/ULC S704	Standard for thermal insulation, polyurethane and polyisocyanurate, boards, faced (except C177, C1114 and D3985)

CAN/ULC S705.1	Standard for thermal insulation - spray applied rigid polyurethane foam, medium density - material - specification (except C177 and D2856)
CAN/ULC S705.2	Standard for thermal insulation - spray applied rigid polyurethane foam, medium density - installer's responsibility - specification
CAN/ULC S706	Standard for wood fibre insulating boards for buildings (except CAN/ULC S773)
CAN/ULC S710.1	Standard for thermal insulation – bead-applied one component polyurethane air sealant foam - part 1: material specification
CAN/ULC S710.2	Standard for thermal insulation – bead-applied one component polyurethane air sealant foam - part 2: installation
CAN/ULC S711.1	Standard for thermal insulation – bead-applied two component polyurethane air sealant foam - part 1: material specification (except C177 and E514)
CAN/ULC S711.2	Standard for thermal insulation – bead-applied two component polyurethane air sealant foam – part 2: installation
CAN/ULC S712.1	Standard for thermal insulation - light density - open cell spray applied semi-rigid polyurethane foam - material specification
CAN/ULC S770	Standard test method for determination of long-term thermal resistance of closed-cell thermal insulating foams
ICC ES AC02	Reflective insulation (test methods referenced in sections 3.0)
ICC ES AC12	Foam plastic insulation (test methods referenced in sections 3.0 and 4.0, except E119 and UL standard 263)
ICC ES AC187	Polyester loose-fill and blanket insulations (test methods referenced in sections 3.0 and 4.0)
ICC ES AC263	Prefabricated duct fitting insulation manufactured from molded, expanded polystyrene foam plastic (test methods referenced in section 3.0)
ICC ES AC377	Spray-applied foam plastic insulation (test methods referenced in section 3.0)
MIL-I-2781F	Specification: insulation – pipe – thermal

Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY CANADA INC.

Mississauga, Ontario, Canada

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 11th day of November 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6524.01
Valid to October 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Construction Material«field» Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: October 31, 2022 Certificate Number: 6524.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following tests on Building Products:

Test Method:	**Test Description:**
Accelerated Aging, Product Durability & Energy Systems:	
AATCC 16.3	Colorfastness to light: xenon-arc
ASTM D518	Standard test method for rubber deterioration-surface cracking
ASTM D642	Standard test method for determining compressive resistance of shipping containers, components, and unit loads
ASTM D880	Standard test method for impact testing for shipping containers and systems (samples up to 1000 lbs.)
ASTM D999	Standard test methods for vibration testing of shipping containers
ASTM D1149	Standard test methods for rubber deterioration—cracking in an ozone controlled environment (except Sections 7 to 14)
ASTM D1171	Standard test method for rubber deterioration—surface ozone cracking outdoors (triangular specimens) (except D4575)
ASTM D1499	Standard practice for filtered open-flame carbon-arc exposures of plastics (except ISO 4892-4)
ASTM D2126	Standard test method for response of rigid cellular plastics to thermal and humid aging
ASTM D2247	Standard practice for testing water resistance of coatings in 100 % relative humidity (except D2616, D1654, D3363, D610 and D714)
ASTM D2565	Standard practice for xenon-arc exposure of plastics intended for outdoor applications (except D1293 and ISO 4892-2)

Test Method:	**Test Description:**
ASTM D4169	Standard practice for performance testing of shipping containers and systems (except D951, D4003, D5265, D5277, D5487, D6344 and D7386)
ASTM D4332	Standard practice for conditioning containers, packages, or packaging components for testing
ASTM D4459	Standard practice for xenon-arc exposure of plastics intended for indoor applications
ASTM D4587	Standard practice for fluorescent UV-condensation exposures of paint and related coatings
ASTM D4728	Standard test method for random vibration testing of shipping containers
ASTM D4798/D4798M	Standard practice for accelerated weathering test conditions and procedures for bituminous materials (xenon-arc method) (except D1670 and D36)
ASTM D5276	Standard test method for drop test of loaded containers by free fall
ASTM D6055	Standard test methods for mechanical handling of unitized loads and large shipping cases and crates
ASTM D6179	Standard test methods for rough handling of unitized loads and large shipping cases and crates
ASTM D6653/D6653M	Standard test methods for determining the effects of high altitude on packaging systems by vacuum method
ASTM E408	Standard test methods for total normal emittance of surfaces using inspection-meter techniques (method A)
ASTM F1980	Standard guide for accelerated aging of sterile barrier systems for medical devices
ASTM G152	Standard practice for operating open flame carbon arc light apparatus for exposure of nonmetallic materials (except ISO 4892-4)
ASTM G153	Standard practice for operating enclosed carbon arc light apparatus for exposure of nonmetallic materials (except ISO 4892-4)
ASTM G154	Standard practice for operating fluorescent ultraviolet (UV) lamp apparatus for exposure of nonmetallic materials (except ISO 4892-4)
ASTM G155	Standard practice for operating xenon arc light apparatus for exposure of non-metallic materials (except ISO 4892-2; ISO 105 B04, ISO 105 B05, ISO 105 B06, and ISO 1134)
CGSB 1-GP-71	Methods of testing paints and pigments (method 122.1 and 122.13)
DIN75 220	Ageing of Automotive Components in Solar Simulation Units

Test Method:	**Test Description:**
ISO 8301	Determination of steady-state thermal resistance and related properties - Heat flow meter apparatus
ISTA 1A	Packaged-products weighing 150 lb (68 kg) or less
ISTA 1B	Packaged-products weighing over 150 lb (68 kg)
ISTA 1C	Extended testing for packaged-products 150 lb (68 kg) or less
ISTA 1D	Extended testing for packaged-products over 150 lb (68 kg)
ISTA 1E	Unitized loads of same product
ISTA 1G	Packed-products 150 lb (68 kg) or less (random vibration)
ISTA 1H	Packaged-products over 150 lb. (68 kg) (random vibration)
ISTA 2A	Packaged-products 150lb (68 kg) or less
ISTA 2B	Packaged-products over 150lb (68 kg)
ISTA 3E	Packaged-products considered elongated
ISTA 7D	Temperature test for transport packaging (thermal cycling only)
JIS D 0205	Test method of weatherability for automotive parts
MIL-STD-202F	Electronic and electrical component parts (only for 103B)
MIL-STD-202F	Electronic and electrical component parts (only for 201A, 204D)
MIL-STD-202G	Electronic and electrical component parts (only for 103B)
MIL-STD-202G	Electronic and electrical component parts (only for 201A, 204D)
MIL-STD-810E	Environmental test methods and engineering guidelines (only for sections 500.3 (except III and IV), 501.3, 502.3, 507.3)
MIL-STD-810E	Environmental test methods and engineering guidelines - Method 505.3 Solar Radiation (Sunshine)
MIL-STD-810E	Environmental test methods and engineering guidelines (method 512.3)
MIL-STD-810E	Environmental test methods and engineering guidelines (only for 514.4, 516.4)
MIL-STD-810F	Environmental engineering considerations and laboratory tests (only for sections 500.4 (except III and IV), 501.4, 502.4, and 507.4)
MIL-STD-810F	Environmental engineering considerations and laboratory tests (method 505.4)
MIL-STD-810F	Environmental engineering considerations and laboratory tests (only for 514.4, 516.5 except V, VII and VIII)

Test Method:	**Test Description:**
MIL-STD-810G	Environmental engineering considerations and laboratory tests (only for Sections 500.5 (except III and IV), 501.5, 502.5, and 507.5)
MIL-STD-810G	Environmental engineering considerations and laboratory tests (only for 514.6, 516.6 except for V, VII and VIII)
NISSAN NES M0135	Weatherability and light resistance test methods for synthetic resin
RTCA/DO-160D	Environmental conditions and test procedures for airborne equipment (only for section 5)
RTCA/DO-160D	Environmental conditions and test procedures for airborne equipment (only for 7 [samples up to 1000 lbs.], 8)
RTCA/DO-160E	Environmental conditions and test procedures for airborne equipment (only for section 5)
RTCA/DO-160E	Environmental conditions and test procedures for airborne equipment (only for 7 [samples up to 1000 lbs.], 8)
RTCA/DO-160F	Environmental conditions and test procedures for airborne equipment (only for section 5)
RTCA/DO-160F	Environmental conditions and test procedures for airborne equipment (only for 7 [samples up to 1000 lbs.], 8)
RTCA/DO-160G	Environmental conditions and test procedures for airborne equipment
SAE J1885	Accelerated exposure of automotive interior trim components using a controlled irradiance water cooled xenon-arc apparatus
SAE J1960	Accelerated exposure of automotive exterior materials using a controlled irradiance water-cooled xenon arc apparatus
SAE J2412	Accelerated exposure of automotive interior trim components using a controlled irradiance xenon-arc apparatus
SAE J2527	Performance based standard for accelerated exposure of automotive exterior materials using a controlled irradiance xenon-arc apparatus
SAE J575	Test methods and equipment for lighting devices for use on vehicles less than 2032 mm in overall width
6-Samsclub	Packaged-products for Sam's Club® distribution system shipment (ISTA)
Toyota TSH1585G	Accelerated weathering resistance of paint film
Heating & Cooling:	
ASHRAE 117	Method of testing closed refrigerators
CAN/CSA C191	Performance of electric storage tank water heaters for domestic hot water service

Test Method:	**Test Description:**
CAN/CSA C439	Laboratory methods of test for rating the performance of heat/energy-recovery ventilators
CAN/CSA C742	Energy performance of automatic icemakers and ice storage bins
CAN/CSA C827	Energy performance of food service refrigerators and freezers
CAN/CSA F378	Solar collectors
CAN/CSA F379.1	Solar domestic hot water systems (liquid to liquid heat transfer)
CAN/CSA F379.2	Seasonal use solar domestic hot water systems
CAN/ULC-S110	Standard methods of test for air ducts (except sections 4.6.3.2 and 4.6.3.3)
CSA P.3	Testing method for measuring energy consumption and determining efficiencies of gas-fired and fuel oil-fired water heaters
CSA P.7	Test method for measuring energy loss of gas-fired instantaneous water heaters
CSA P.9	Test method for determining the performance of combined space and water heating systems (combos)
CSA P.10	Test method for measuring energy loss of gas-fired instantaneous water heaters
Physical Characterization:	
AATCC 127	Water resistance: hydrostatic pressure test
ANSI/AMCA 210	Laboratory methods of testing fans for certified aerodynamic performance rating
ANSI/ASHRAE 51	Laboratory methods of testing fans for aerodynamic performance rating
ANSI/BHMA A156.18	Materials and finishes
ANSI/BIFMA X5.1	General-purpose office chairs - tests
ANSI/BIFMA X5.3	Standard for office furnishings – vertical files
ANSI/BIFMA X5.4	Lounge seating
ANSI/BIFMA X5.5	Desk products
ANSI/BIFMA X5.6	Panel systems - tests
ANSI/BIFMA X5.9	Storage units
ANSI/BIFMA X6.1	Educational seating
BIFMA X6.4	Occasional-Use Seating
ANSI/KCMA A161.1	Performance and construction standard for kitchen and vanity cabinets
ANSI/SOHO S6.5	Small office/home office furniture – tests American national standard for office furnishings
ASTM C165	Standard test method for measuring compressive properties of thermal insulations (except for E4, E177 and E240)
ASTM C167	Standard test methods for thickness and density of blanket or batt thermal insulations

Test Method:	**Test Description:**
ASTM C203	Standard test methods for breaking load and flexural properties of block-type thermal insulation
ASTM C302	Standard test method for density and dimensions of preformed pipe-covering-type thermal insulation
ASTM C303	Standard test method for dimensions and density of preformed block and board–type thermal insulation
ASTM C446	Standard test method for breaking load and calculated modulus of rupture of preformed insulation for pipes
ASTM C550	Standard test method for measuring trueness and squareness of rigid block and board thermal insulation
ASTM C794	Standard test method for adhesion-in-peel of elastomeric joint sealants
ASTM C836/C836M	Standard specification for high solids content, cold liquid-applied elastomeric waterproofing membrane for use with
ASTM C1036	Standard specification for flat glass
ASTM C1304	Standard test method for assessing the odor emission of thermal insulation materials
ASTM C1305	Standard test method for crack bridging ability of liquid-applied waterproofing membrane
ASTM C1335	Standard test method for measuring non-fibrous content of man-made rock and slag mineral fiber insulation
ASTM C1511	Standard test method for determining the water retention (repellency) characteristics of fibrous glass insulation (aircraft type)
ASTM C1559	Standard test method for determining wicking of fibrous glass blanket insulation (aircraft type)
ASTM D523	Standard test method for specular gloss
ASTM D618	Standard practice for conditioning plastics for testing
ASTM D751	Standard test methods for coated fabrics
ASTM D882	Standard test method for tensile properties of thin plastic sheeting
ASTM D897	Standard test method for tensile properties of adhesive bonds
ASTM D903	Standard test method for peel or stripping strength of adhesive bonds
ASTM D1056	Standard specification for flexible cellular materials—sponge or expanded rubber (except ASTM standards D471 and D575)
ASTM D1336	Standard test method for distortion of yarn in woven fabrics

Test Method:	**Test Description:**
ASTM D1621	Standard test method for compressive properties of rigid cellular plastics
ASTM D1622	Standard test method for apparent density of rigid cellular plastics
ASTM D1623	Standard test method for tensile and tensile adhesion properties of rigid cellular plastics
ASTM D1761	Standard test methods for mechanical fasteners in wood
ASTM D2136	Standard test method for coated fabrics—low-temperature bend test
ASTM D2244	Standard practice for calculation of color tolerances and color differences from instrumentally measured color coordinates
ASTM D2842	Standard test method for water absorption of rigid cellular plastics
ASTM D3045	Standard practice for heat aging of plastics without load
ASTM D3359	Standard test methods for measuring adhesion by tape test
ASTM D3363	Standard test method for film hardness by pencil test
ASTM D3389	Standard test method for coated fabrics abrasion resistance (rotary platform abrader)
ASTM D3574	Standard test methods for flexible cellular materials—slab, bonded, and molded urethane foams
ASTM D4060	Standard test method for abrasion resistance of organic coatings by the taber abraser
ASTM D5420	Standard test method for impact resistance of flat, rigid plastic specimen by means of a striker impacted by a falling weight (Gardner impact)
ASTM E96/E96M	Standard test methods for water vapor transmission of materials
ASTM E424	Standard test methods for solar energy transmittance and reflectance (terrestrial) of sheet materials
ASTM E1084	Standard test method for solar transmittance (terrestrial) of sheet materials using sunlight
ASTM F2096	Standard test method for detecting gross leaks in packaging by internal pressurization (bubble test)
BIFMA/CMD 1	Universal measurement procedure for the use of the BIFMA chair measuring device
BIFMA X5.11	General-purpose large occupant office chairs – tests
BIFMA X5.41	Large Occupant Public and Lounge Seating
CAN/CGSB 44.227	Free-standing office desk products and components (except 4.3, 4.4, 5, 5.2, 5.4, 5.6, 6.1.2)

Test Method:	**Test Description:**
CAN/CGSB 44.229	Interconnecting panel systems and supported components (except 4.3, 4.4, 5.2, 5.4, 6.1.4, 6.1.5, 6.1.6, 6.1.9, 6.1.10, 6.1.11, 6.2.5, and 6.9)
CAN/CGSB 44.232	Task chairs for office environments (except 4.3, 4.4, 4.14)
PD-1	Purchase Description to Accompany CAN/CGSB 44.227 - General Office Furniture (except 6.3)
PD-3	Purchase Description to Accompany CAN/CGSB 44.227 – Executive Furniture (except 5.1, and 5.2)
PD-4	Purchase Description to Accompany Interconnecting Panels and Supported Components (except 6.5, 6.6, and 6.8)
SEFA-8M	Laboratory furniture casework, shelving and tables recommended practices – metal (except 8)
SEFA-8W	Laboratory furniture casework, shelving and tables recommended practices - wood (except 8.1)
ASTM C578	Standard specification for rigid, cellular polystyrene thermal insulation
ASTM C591	Standard specification for unfaced preformed rigid cellular polyisocyanuratethermal insulation (except C177, C871, C1114 and D2856)
ASTM C592	Standard specification for mineral fiber blanket insulation and blanket-type pipe insulation (metal-mesh covered) (industrial type)
ASTM C610	Standard specification for molded expanded perlite block and pipe thermal insulation (except C177)
Solar Thermal	
ANSI/ASHRAE 55	Thermal environmental conditions for human occupancy
ASHRAE 93	Methods of testing to determine the thermal performance of solar collectors
EN ISO 9806	Solar energy -- solar thermal collectors -- test methods
EN 12975-2	Thermal solar systems and components - solar collectors - part 2: test methods
SRCC 100	Minimum standards for solar thermal collectors
SRCC 600	Minimum standard for solar thermal concentrating collectors
SRCC TM-1	Solar thermal component test and analysis protocol

Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY CANADA INC.

Mississauga, Ontario, Canada

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 11th day of November 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6524.02
Valid to October 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical«field» Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY CANADA INC.
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THERMAL
(FIRE TESTING)

Valid To: October 31, 2022 Certificate Number: 6524.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following fire tests on Building Products:

Test Method:	**Test Description:**
Fire Testing:	
14 CFR Part 25 App. F, part I	Bunsen Burner Tests for Cabin Materials as cited in FAR 25.853(a), 25.855(a), 25.857(a), 29.853(a), 49 CFR Part 238 (Passenger Railcar Materials) and FTA Docket 90-A (Transit Bus and Van Materials)
14 CFR Part 25 App F, part V	Smoke Generation of Aerospace Materials as cited in FAR 25.853(d)
16 CFR 1610	Commercial practices - standard for the flammability of clothing textiles
16 CFR 1615	Commercial practices - standard for the flammability of children's sleepwear: sizes 0 through 6X (FF 3-71)
16 CFR 1632	Commercial practices - standard for the flammability of mattresses and mattress pads (FF 4-72, amended) (supersedes California TB 106)
16 CFR 1633	Commercial practices - standard for the flammability (open flame) of mattress sets (supersedes California TB 603)
ASTM C1166	Standard test method for flame propagation of dense and cellular elastomeric gaskets and accessories
ASTM D568	Standard test method for rate of burning and/or extent and time of burning of flexible plastics in a vertical position
ASTM D635	Standard test method for rate of burning and/or extent and time of burning of plastics in a horizontal position
ASTM D1929	Standard test method for determining ignition temperature of plastics

Test Method:	**Test Description:**
ASTM D2863	Standard Test Method for Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics.
ASTM D3675	Standard test method for surface flammability of flexible cellular materials using a radiant heat energy source
ASTM D6413/D6413M	Standard test method for flame resistance of textiles (vertical test)
ASTM E84	Standard test method for surface burning characteristics of building materials
ASTM E136	Standard test method for behavior of materials in a vertical tube furnace at 750°C
ASTM E162	standard test method for surface flammability of materials using a radiant heat energy source
ASTM E648	Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source
ASTM E662	Standard test method for specific optical density of smoke generated by solid materials
ASTM E970	Standard test method for critical radiant flux of exposed attic floor insulation using a radiant heat energy source
ASTM E1353	Standard test methods for cigarette ignition resistance of components of upholstered furniture
ASTM E1354	Standard test method for heat and visible smoke release rates for materials and products using an oxygen consumption calorimeter
Bombardier SMP 800-C	Toxic gas generation of “suppress 5/8” sound engineering drywall” composite
Boeing BSS 7239	Fire test to aircraft material – toxicity
California Administrative Code Title 19 (para. 1237.1 and 1237.3)	Public Safety, Regulations Relating to Flame-retardant Chemicals, Fabric and Application Concerns – Test Requirements for Exterior Flame-retardant Chemicals – Fire Resistance
California TB 106[1] (superseded by 16 CFR Part 1632)	Resistance of Mattress from Smouldering Cigarettes
California TB 117	Requirements – test procedure and apparatus for testing the flame retardance of resilient filling materials used in upholstered furniture
California TB 121	Flammability test procedure for mattresses for use in high risk occupancies
California TB 129	Flammability test procedure for mattresses for use in public buildings
California TB 133	Flammability test procedure for seating furniture for use in public occupancies
California TB 603	Requirements and test procedure for resistance of a mattress/box spring set to a large open-flame (superseded by 16 CFR Part 1633)
CAN/CSGB 155.1	Firefighters' protective clothing for protection against heat and flame
CAN/CSGB 155.20	Workwear for protection against hydrocarbon flash fire

Test Method:	**Test Description:**
CAN/CSGB 155.22	Fireline workwear for wildland firefighters
CAN/CSGB 4.2 M 27.1	Textile test methods - flame resistance - vertical burning test
CAN/CSGB 4.2 M 27.2	Textile test methods - flame resistance - surface burning test
CAN/CSGB 4.2 M 27.4	Textile test methods - textile fabrics - burning behaviour - determination of ease of ignition of vertically oriented specimens (based on ISO 6940)
CAN/CSGB 4.2 M 27.5	Test Method for Flammability of Apparel Textiles
CAN/CSGB 4.2 M 27.7	Textile test methods for combustion resistance of mattresses
CAN/CSGB 4.2 No. 27.10	Textile test methods - flame resistance - vertically oriented textile fabric or fabric assembly test
CAN/ULC-S102	Standard method of test for surface burning characteristics of building materials and assemblies
CAN/ULC-S102	Standard method of test for surface burning characteristics of building materials and assemblies
CAN/ULC-S102.2	Method of test for surface burning characteristics of flooring, floor coverings, and miscellaneous materials and assemblies
CAN/ULC-S109	Standard method for flame tests of flame resistant fabrics and films
CAN/ULC-S114	Standard method of test for determination of non-combustibility in building materials
CAN/ULC-S127	Standard corner wall method of test for flammability characteristics of non-melting building materials
CAN/ULC-S129	Standard Method of Test for Smoulder Resistance of Insulation (Basket Method)
CAN/ULC-S135	Standard method of test for determination of degrees of combustibility of building materials using an oxygen consumption calorimeter (cone calorimeter)
CAN/ULC-S137	Standard method of test for fire growth of mattresses (open flame test)
CMVSS 302/FMVSS 302	Flammability of interior materials test
CPAI 84	Specification for flame-resistant materials used in camping tentage
ISO 871	Plastics -- determination of ignition temperature using a hot-air furnace
ISO 5660-1	Reaction-to-fire tests -- heat release, smoke production and mass loss rate -- part 1: heat release rate (cone calorimeter method)
NFPA 253	Standard method of test for critical radiant flux of floor covering systems using a radiant heat energy source
NFPA 258	Recommended practice for determining smoke generation of solid materials

Test Method:	**Test Description:**
NFPA 260	Standard methods of tests and classification system for cigarette ignition resistance of components of upholstered furniture
NFPA 701	Standard methods of fire tests for flame propagation of textiles and films
UFAC	Fire Tests, Components, Cigarette Ignition Mattresses
UL 94	Standard for tests for flammability of plastic materials for parts in devices and appliances
UL 723	Standard for test for surface burning characteristics of building materials

[1]This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

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Presented this 11th day of November 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6524.03
Valid to October 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Thermal«field» Scope of Accreditation.