

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY CANADA INC.

Oakville Laboratory 2475 Speers Road Oakville, Ontario, Canada – L6L 2X9 Luiz Rios Phone: 905-822-4111

CONSTRUCTION MATERIALS TESTING

Valid To: October 31, 2026 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 <u>Building Products</u>:

| Test Method: | Test Description: |
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| ASTM C39 | Standard test method for compressive strength of cylindrical concrete specimens |
| CSSBI S2 | Criteria for the testing of composite slabs |
| SDI T-CD | Test Standard for composite steel deck-slabs |
| Building Envelope & Fenestration: | |
| AAMA/WDMA/CSA 101/I.S.2/A440 (NAFS) | Specification for windows, doors, and skylights |
| A440S1 | Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440 (NAFS) 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 |
| AAMA 503¹ | 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 |

(A2LA Cert. No. 6524.01) 02/28/2025

| Test Method: | Test Description: |
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| AAMA 1503 | Voluntary test method for thermal transmittance and condensation resistance of windows, doors and glazed wall sections (CRF only) |
| ANSI Z97.1 | Standard for safety glazing materials used in buildings safety performance specifications and methods of test (except hardness and natural weathering) |
| 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 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) |
| ASTM E576 | Standard test method for frost/dew point of sealed insulating glass units in the vertical position (except E77) |
| ASTM E773-01 (Withdrawn 2010) | Standard test method for accelerated weathering of sealed insulating glass units |
| ASTM E774-97 (Withdrawn 2006) | Standard specification for the classification of the durability of sealed insulating glass units (except E1887) |
| ASTM E783 ¹ | 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 E907-96 (Withdrawn 2013) ¹ | 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 |



| Test Description: |
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| 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 |
| Standard test method for structural performance of exterior windows, doors, skylights, and curtain walls by cyclic air pressure differential |
| 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 |
| Standard test method for structural performance of sheet metal roof and siding systems by uniform static air pressure difference |
| Standard specification for air barrier (AB) material or system for low-rise framed building walls |
| Standard Test Method for Evaluating the Engagement Between Windows and Insect Screens as an Integral System |
| Standard test method for determination of operating force of sliding windows and doors |
| Standard test method for insulating glass unit performance |
| Standard test method for testing resistance to fogging in insulating glass units |
| Standard specification for insulating glass unit performance and evaluation (except C1265) |
| Standard test method for determining the drainage efficiency of exterior insulation and finish systems (EIFS) clad wall assemblies |
| Standard test methods for performance of glazing in permanent railing systems, guards, and balustrades (except ASTM standard E2025) |
| Standard test method for determining air leakage of air barrier assemblies |
| Standard specification for the performance of glass in permanent glass railing systems, guards, and balustrades (except ASTM standard E2025) |
| Standard test method for freeze/thaw resistance of exterior insulation and finish systems (EIFS) and water resistive barrier coatings |
| Standard test method for impact resistance of class PB and PI exterior insulation and finish systems (EIFS) |
| Standard specification for PB exterior insulation and finish systems (except E2486, E119, E2134, B117 and NFPA 285) |
| Standard test methods for evaluating water-resistive barrier (WRB) coatings used under exterior insulation and finish systems (EIFS) or EIFS with drainage (except E2134 and AATCC 127) |
| Standard test methods for measuring the forced entry resistance of window assemblies, excluding glazing impact (except glazing impact) |
| Standard test methods for measuring the forced entry resistance of sliding door assemblies, excluding glazing impact (except glazing impact) |
| Standard test method for security glazing materials and systems (except ballistic testing) |
| Glass in building - heat soaked thermally toughened soda lime silicate safety glass - definition and description (section 10) |
| Safety Glazing (except hardness and natural weathering) |
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| Test Method: | Test Description: |
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| CAN/CSA-A440.2 | Fenestration energy performance |
| CAN/ULC S716.1 ² | Standard for exterior insulation and finish systems (EIFS) – materials and systems (except Ash, IR, Fungus and Salt Spray) ² |
| CAN/ULC S742 | Standard for air barrier assemblies – specification |
| CPSC 16 CFR 1201 | Commercial practices - safety standard for architectural glazing materials |
| CSA A123.21 | Standard test method for the dynamic wind uplift resistance of membrane-roofing systems |
| CSSBI 12M | Standard for composite steel deck |
| ICC ES AC39 | Walking decks (test methods referenced in sections 3.0 and 4.0 except 4.2.6, 4.3.5, 4.1.11, 4.3.11, 4.1.13, 4.3.14, 4.4) |
| ICC ES AC174 | Deck board span ratings and guardrail systems |
| 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 200 | Procedure for determining fenestration product solar heat gain coefficient and visible transmittance at normal incidence |
| 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 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 |
| ASTM C393 | Core Shear Properties of Sandwich Constructions |
| 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) |



| Test Method: | Test Description: |
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| 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 |
| 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 |
| ASTM E2134 | systems (EIFS), after exposure to a sodium hydroxide solution 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 ¹ | Standard test method for field pull testing of an in-place exterior insulation and finish system clad wall assembly |

| Test Method: | Test Description: |
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| 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 |
| CGSB 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) |
| ICC ES AC38 | Water-resistive barriers (test methods referenced in sections 3.3.4) |
| ICC ES AC48 | Self-adhered roof underlayment-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) |



| Test Method: | Test Description: |
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| ICC ES AC114 | Rigid polyethylene, below-grade, damp proofing and wall waterproofing material (test methods referenced in section 4.0) |
| ICC ES AC168 | Unplasticized Poly Vinyl Chloride (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) |
| 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) |
| EN12667 | Thermal performance of building materials and products. Determination of thermal resistance by means of guarded hot plate and heat flow meter methods. Products of high and medium thermal resistance. |
| 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) |
| 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 polyisocyanurate thermal 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) |



| Test Method: | Test Description: |
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| 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/CGSB 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 |



| Test Method: | Test Description: |
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| CAN/ULC S712.1 | Standard for thermal insulation - light density - open cell spray applied semi-rigid polyurethane foam - material specification |
| CAN/ULC S743.1 | Standard for thermal insulation – low pressure applied two component spray polyurethane foam, part 1: 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 |

¹ This laboratory performs field testing activities for these tests.



 $^{^2}$ Exception methods for CAN/ULC S716.1 performed at other ISO/IEC 17025 accredited Element locations.



Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY CANADA INC.

Oakville, Ontario, Canda

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 28th day of February 2025.

Mr. Trace McInturff, Vice President, Accreditation Services

For the Accreditation Council

Certificate Number 6524.01

Valid to October 31, 2026