

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY CANADA INC. Oakville Laboratory 2475 Speers Road Oakville, Ontario, Canada – L6L 6S Luiz Rios Phone: 905-822-4111 ext. 10282

THERMAL (FIRE TESTING)

Valid To: January 31, 2025

Certificate Number: 6524.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following <u>fire tests</u>:

Test Method:	Test Description:
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 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
ASTM D2863	Standard Test Method for Measuring the Minimum Oxygen
	Concentration to Support Candle-Like Combustion of Plastics.
ASIM D36/5	Standard test method for surface flammability of flexible cellular
	materials using a radiant heat energy source
AS1M D6413/D6413M	Standard test method for flame resistance of textiles (vertical test)
ASIM E84	Standard test method for surface burning characteristics of
	building materials
ASTM E2/08	Standard Test Method for Extended Duration Surface Burning
	Characteristics of Building Materials (30 min 1 unnel 1 est)
ASTM E130	Standard test method for benavior of materials in a vertical tube
	turnace at /30°C
ASIM E102	standard test method for surface flammability of materials using a
	radiant neat energy source

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Test Method:	Test Description:
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	Public Safety, Regulations Relating to Flame-retardant Chemicals,
Title 19	Fabric and Application Concerns – Test Requirements for Exterior
(para. 1237.1 and 1237.3)	Flame-retardant Chemicals – Fire Resistance
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
CAN/CSGB 155.1	Firefighters' protective clothing for protection against heat and
	flame
CAN/CSGB 155.20	Workwear for protection against hydrocarbon flash fire
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 27.4	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-S102.2	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)

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Test Method:	Test Description:
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
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

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Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY CANADA INC.

Oakville, Ontario, Canada

for technical competence in the field of

Thermal 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 2nd day of March 2023.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 6524.03 Valid to January 31, 2025 Revised October 16, 2024