

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY ST. PAUL, INC.

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MECHANICAL

Valid To: December 31, 2026 Certificate Number: 0098.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above as well as the one satellite laboratory location listed below on the following products or types of products: adhesives and sealants; automotive components; coatings; consumer products; electronics and electromechanical assemblies; fasteners; fiberglass; furniture; glass; geotextiles; hoses; insulation; mattresses; medical devices; metal and alloys; packaging; plastics and polymers; pipes; tapes; valves and fitting; pressure vessels; rubber and elastomers; textiles; and weldments¹:

Test(s): Test Method(s):

Acoustics ASTM C423, E90, E413, E795; ISO 354, 10140-2

Air Leakage and Operating Force ASTM E283; E2068

Anchors ACI 355.2, 355.4; ASTM E488, E1512;

ETAG001 (Parts 1, 2, 3, 4, 5 and 6 with Annex A, B and E (*except C2.4 and C2.5*)); ICC ES AC01 (Section 5.0), AC58 (Sections 4.0 and 5.0), AC106 (Section 4.0), AC193 (Sections 7, 8 and 9, and tables 4.1, 4.2 and 4.3), AC232 (Section 7.0), AC308 (Sections 3, 4, 7, 8 and 9, and tables 3.1-3.7, 3.8 (Except tests 12 and 13), and 3.9), AC320 (Sections 3.0 and 4.0), AC446 (Sections 3.0 and

4.0)

Bedding:

Standard Test Methods for Evaluation of ASTM F1566 (Sections 6, 7, 8 and 9); NAVSEA

Innersprings and Box Springs 05Z6 PD 5-04A

Standard Test Methods for Flexible Cellular ASTM D3574 (Tests A, B₁, B₂, D, E, F, H, I₃, K Materials-Slab, Bonded, and Molded Urethane and L)

Foams

Requirements and Test Methods for Full Body
Support Surfaces

ANSI/RESNA SS-1: Thermal: (Section 3, 4, 8)
Support Surface Characterization: (Section 2, 5, 6,

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Environmental Simulation:

Humidity MIL-STD-202 (Method 103B), MIL-STD-810

(Method 507)

Fluorescent UV- Condensation, Light- and

Water-Exposure (QUV)

ASTM G154

Salt Spray (Fog) ASTM B117; MIL-STD-202 (Method 101E),

MIL-STD-810 (Method 509); IEC 60068-2-52

Modified Salt Spray ASTM G85, Annex 5

Shock, Mechanical IEC 60068-2-27; MIL-STD-810 (Method 516)

Shock, Thermal MIL-STD-202 (Method 107G)

Temperature/Humidity/Pressure IEC 60601-1-11

Xenon-Arc Light Exposure, With and Without

Water

ASTM D2565, G155

Vibration IEC 60068-2-64; MIL-STD-810 (Method 514)

Fall Protection Devices:

Anchorage Connectors for Active Fall

Protection Systems

ANSI/ASSE Z359.18

Anchorage Connector, Personnel Hoist, Hoist

Line, Primary and Secondary Brakes

ANSI/ASSE Z359.4

Flammability:

Flammability of Mattresses and Mattress Pads 16 CFR 1632

Flammability (Open Flame) of Mattress Sets 16 CFR 1633; NAVSEA 05Z6 PD 5-04A; TB 121

Flammability Test Procedure for Mattresses for

US in Public Buildings

CA TB 129; ASTM E1590

Boston Mattress Fire Test BFD IX-11

Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of

Materials Used in Upholstered Furniture

CA TB 117-2013

Flammability for Textiles 16 CFR 1610

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Flammability Test Method for Automobile FMVSS 302; Honda HES D6003; SAE J369

Interior Materials

Flammability Test Procedure for Seating CA TB 133 (withdrawn 2019);

Furniture for Use in Public Occupancies ASTM E1537

Wheelchair Cushion Flammability ISO 16840-10

Hardness:

Brinell (500 to 3000) kg ASTM E10

Rockwell (A, BW, C, E, 15N, 30N, 45N, 15T, ASTM E18; ISO 898-1; NASM 1312-6

30T, 45T)

Micro Hardness, Vickers and Knoop ASTM E384; NASM 1312-6; SAE J417

(HK100, HK500, HV25, HV100, HV 300,

HV500, HV1000)

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Material Testing:

Abrasion Resistance by the Taber Abraser ASTM D4060

Compressive Properties of Rigid Plastics ASTM D695

Durometer Hardness (Shore A, Shore D, Shore ASTM D2240

OO)

Flexural Properties of Plastics ASTM D790

Standard Atmospheres for Conditioning and ASTM D618

Testing

Tensile Properties of Plastics ASTM D638

Water Vapor Transmission ASTM E96/E96M

Metallography:

Banding/Orientation (Non-Dimensional) ASTM E1268

Carburization/Decarburization (Visual and ASTM A574, E1077, F2328; ISO898-1, 898-5,

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Hardness) and Case Depth 4570; SAE J78, J81, J419, J423, J933

Examination and Evaluation of Pitting ASTM G46; BSS7219

Corrosion

Grain Size (Comparison)

ASTM E112, E930, E1181; ISO 643;

ASTM A262 (Provide A 8 E)

ASTM A262 (Practice A & E)

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Inclusions ASTM E45 Method A

End Grain Pitting on Metals ASTM F2111; BSS7219

Macroetching (Grain Flow) ASTM A604/A604M, E340, E381, F788;

ISO 6157-1, 6157-3

Measurement of Coating Thickness ASTM B487 (Using Computer Imaging)

Microetching AMS 2643; ASTM E3, E407

Metals and Metal Products, Fasteners:

Axial Tensile Strength of Full-Sized Threaded A

Fasteners

AC 118, ASTM F606/F606M; BAC D2-2860;

ISO 898-1, ISO 6892-1; JIS B1051;

NASM 1312-8; SAE J82

Bend, Guided and Semi-Guided (Welds) ASME Section IX; AWS D1.1/D1.1M,

D1.2/D1.2M, D1.3/D1.3M, D1.4/D1.4M, D1.5/D1.5M, D1.6/D1.6M, D17.1/D17.1M,

D17.3

Bend Test (General) ASTM A615/A615M, E290

Coating Weight ASTM A90/A90M

Full Sized Eye Bolts: Bend Test, Breaking

Strength and Proof Load

ASTM F541

Impact, Notched Bar

(Room Temperature to -321) °F

ASTM A370, A489, A673/A673M, E23; AWS D1.5/D1.5M; DTW 766; ISO 148-1

Mechanical and Material Requirements for

Externally Threaded Fastener

SAE J429²

Mechanical and Material Requirements for

Metric Externally Threaded Steel Fasteners

Proof Load of Full Sized: Externally Threaded

Fasteners

SAE J1199²

led AASHTO T244; ASTM A370, F606/F606M;

ISO 898-1; JIS B1051

Tension Test-Ambient Temperature AASHTO M31; ASTM A370, A615/A615M,

A706/A706M, B557, E8/E8M, F606/F606M; ISO 898-1, 3506; JIS B1051; NASM 1312-8

Total Extension at Fracture of Externally

Threaded Fasteners

ASTM F606/606M; ISO 898-1, 3506

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Wedge Tensile of Full Sized Threaded AASHTO T244; ASTM A370, F606/F606M;

Fasteners ISO 898-1; JIS B1051; NASM 1312-8; SAE J82

Welder Procedure and Welder Qualification
Using the methods listed above and on Scope
#0098.04 in accordance with AWS D1.1/D1.1M,

D1.2/D1.2M, D1.3/D1.3M, D1.4/D1.4M, D1.5/D1.5M, D1.6/D1.6M, and D17.1/D17.1M,

D17.3/D17.3M

Nails and Fasteners:

Nails, Fasteners, Spikes and Staples ASTM D4442, F1575, F1667; ICC ES AC116

((Test Methods Referenced in Sections 3.0) (Sections 3.2-3.10)); AC118 (Test Methods Referenced in Section 4.0); AC233; AC257 (Test Methods Referenced in Sections 3.0 and 4.0)

ANSI A135.4, A135.6, A135.7

Power-Actuated Fasteners ASTM E1190; ICC ES AC70 (Sections 3.0 and

4.0)

Mechanical Fasteners in Wood ASTM D1761

Package Testing:

Physical/Structural:

Thermal:

Standard Practice for Performance Testing of ASTM D4169

Shipping Containers and Systems

Basic Hardboard/Hardboard Siding

Mullen Burst Test ASTM D3786/3786M

External Loading Characteristics of Plastic ASTM D2412

Pipe by Parallel-Plate Loading

Water Absorption of Core Materials for ASTM C272/C272M Sandwich Constructions

Wood-Based Fiber Materials and Particle Panel ASTM D1037 (Except Abrasion Resistance)

Materials

Thermal Transmittance and Condensation AAMA 1503

Resistance Advia 1303

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Measuring Compressive Properties of Thermal

Insulations

ASTM C165

Breaking Load and Flexural Prop. of Block-

Type Thermal Insulation

ASTM C203

Cellulose Fiber Insulating Board ASTM C209 (Except Flame Spread Index)

Dimensions and Density of Preformed Block &

Board Type Insulation

ASTM C303

Thermal Transmission Properties ASTM C518

Rigid, Cellular Polystyrene Thermal Insulation ASTM C578 (Except Oxygen Index)

Thermal Performance by Hot Box Apparatus ASTM C1363

Compression, Density, Thermal and Humid

Aging of Rigid Cellular Plastics

ASTM D1621, D1622, D2126

BAIID Testing:

Breath Alcohol Ignition Interlock Devices AS-3547-1997 (Australia);

CENELEC (Europe); EN 50436-1:2023 (except

clauses 6.7, 6.8 and 6.9);

60068-2-78 (IEC 60068-2-78); CSTT-HVC-TR-114/CSTT-HVC-TR-150 (Except Test 3.6) (Canada); CSA Z627 (Except Clause 8.7);

IEC 60529; 60068-2-30;

ISO 16750-1, 16750-2:2010(withdrawn), 2012, 16750-3:2007 (withdrawn), 2012, 16750-4:2010; NHTSA Federal Register Vol. 78, No. 89 (Except

Test 14)

Failure Analysis:

SEM with EDS SOP MT93 and MT94

Failure Analysis Using the methods listed above in accordance

with ASM handbook Volume 11

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ELEMENT ST. PAUL 702a Prior Avenue North St. Paul, MN 55104

Accreditation is granted to this satellite laboratory to perform the following tests on consumer products:

<u>Test(s):</u> <u>Test Method(s):</u>

Fall Protection Devices:

Full Body Harnesses ANSI/ASSE Z359.11

Personal Energy Absorbers and Energy ANSI/ASSE Z359.13

Absorbing Lanyards

Anchorage Connectors for Active Fall ANSI/ASSE Z359.18

Protection Systems

Anchorage Connector, Personnel Hoist, Hoist ANSI/ASSE Z359.4

Line, Primary and Secondary Brakes

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¹ The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at http://www.cpsc.gov/cgi-bin/labsearch/.

²The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications identified above. The inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications.



Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY ST. PAUL, INC.

St. Paul, MN

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 3rd day of December 2024.

Mr. Trace McInturff, Vice President, Accreditation Services

For the Accreditation Council

Certificate Number 0098.03

Valid to December 31, 2026

Revised April 16, 2025