



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY DALLAS – PLANO WEST
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Plano, Texas 75074
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MECHANICAL

Valid to: December 31, 2025

Certificate Number: 0214.24

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above to perform the following tests for the following industries: Aerospace, Defense, Telecommunication, Electronics and Automotive:

<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s):</u>
Corrosion	Salt Spray/Fog	ASTM B117; ASTM G85; GR-13-CORE; GR-49-CORE; GR-487-CORE; GR-937-CORE; GR-1089-CORE (Section 8); GR-1274-CORE; GR-3108-CORE; GR-3115-CORE; GR-3125-CORE; GR-3178-CORE; MIL-STD 810 C-G; NEMA 250; RTCA/DO-160 C-G
Vibration ¹	Electro Dynamic Sine, Random, Mixed Mode Random/Sine: Vibration Frequency: (5 to 2000) Hz Shocks: up to 75G's; 11 ms duration ½ Sine, Saw Tooth	AT&T-TP76200; EN 60065; EN 60204-1; ETS 300 0 019; GR-13-CORE; GR-49-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE; GR-3115-CORE; GR-3125-CORE; GR-3108-CORE; MIL-STD 167-1; MIL-STD 167-1A; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 331 C; MIL-STD 331 B; MIL-STD 750 C-E; MIL-STD 1344; MIL-STD 810 C-G; MIL-STD 883 E-G; MIL-STD 1344 A; MIL-STD 1540 C-D; MIL-STD 1576; MIL-PRF 28800 F; RTCA/DO-160 C-G; IEC 60068; SAE J577; JIS D160; IEEE 1613; ATIS 0600019-2009 (Pb-free); ATIS 0600020.2010; IEC 60068-2-64; IEC 60068-2-29 Eb; IEC 60068-2-27

<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s):</u>
Package and Unpackaged Drop Testing		MIL-STD-810; GR-63-CORE; GR-487-CORE; IEC 60068-2-32Eb; GR-3108; GR-3178-CORE
Bounce/Loose Cargo		MIL-STD-810
Seismic ¹	Servo Hydraulic Sine & Random 15,000 force pounds (1 to 500) Hz	ANSI T1.329; GR-13-CORE; GR-49-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE; GR-3115-CORE; GR-3125-CORE; IEC 60068-2-57
Acceleration	Up to 40 g's	MIL-STD 810 C-G; RTCA/DO-160 C-G
Illumination		GR-63-CORE
Acoustic Noise ¹	(30 to 100) dBa	GR-63-CORE; GR-487-CORE
Temperature ¹	(-72 to +125) °C	AT&T-TP76200; IEC 60068-2-14 Nb; GR-13-CORE; GR-49-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE; GR-3115-CORE; GR-3125-CORE; GR-3028-CORE (Sections 5.2, O5-4); MIL-PRF 28800 F; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; RTCA/DO-160 C-G; IEC 60068-2-1 Ab; IEC 60068-2-2 Bb; GR-3108-CORE
Temperature and Humidity ¹	@50°C 5% RH @30°C 95% RH	GR-13-CORE; GR-49-CORE; GR-63-CORE; GR-937-CORE; GR-3028-CORE; GR-3115-CORE; GR-3125-CORE; IEC 60068-2-30 Db; MIL-PRF 28800F; MIL-STD 202 F, G; MIL-STD 810 C-G; RTCA/DO160 C-G; IEC 60068-2-56; GR-3108-CORE
Temperature/Altitude ¹	Up to 50,000 ft. (-55 to +85) °C	GR-49-CORE; GR-63-CORE; GR-937-CORE; GR-3115- CORE; GR-3125-CORE; GR-3028-CORE; MIL-PRF 28800 F; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; RTCA/DO160 C-G



<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s):</u>
Explosive Atmosphere ¹	Up to 20,000 ft. (-22 to +85) °C	MIL-PRF 28800 F; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; RTCA/DO-160 C-G
Decompression (Rapid and Explosive) ¹	(6,000 to 55,000) ft.	MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; RTCA/DO-160 C-F
Fluid Susceptibility/Chemical Resistance		GR-49-CORE; GR-487-CORE; GR-937-CORE; RTCA/DO-160 C-E; MIL-STD 810 C-G
Wind Resistance		GR-49-CORE; GR-487-CORE; GR-950-CORE
Wall/Pole Mounted Equipment		GR-950; GR-487; GR-3178-CORE;
Lifting Details ¹	Up to 15,000 lbs.	GR-487-CORE
Security		GR-487-CORE
Alarms		GR-487-CORE
Solar Load Testing		GR-487-CORE (Heating Effects using Heat Strips only); MIL-STD 810 C-G (Procedure 1)
Thermal Shock ¹	(-65 to +125) °C	GR-13-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE
Hygroscopic Dust		GR-63-CORE
Immersion		MIL-STD 810G ; IEC 60529
Lawn Sprinkler		GR-487-CORE; GR-950-CORE
Rain Intrusion		GR-487-CORE; GR-950-CORE
Wind and Rain ¹	100 mph at 6 in./hr	MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; MIL-PRF 28800 F; RTCA/DO-160 C-G; GR-13-CORE; GR-49-CORE; GR-487-CORE; GR-937-CORE; GR-3115-CORE; GR 3125-CORE; GR-3178-CORE; NEMA 250; IEC/EN 60529; GR-950-CORE; IEC 60068-2-18
Dripping Rain		MIL-STD-810; RTCA-DO-160



¹ Also using customer specific test methods utilizing any combination of test equipment parameters listed above.





Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY DALLAS – PLANO WEST

Plano, TX

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 27th day of February 2024.

A blue ink signature of Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 214.24
Valid to December 31, 2025

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