SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY BURTON
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ACOUSTICS and VIBRATION

Valid To: May 31, 2028 Certificate Number: 1123.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following vibration tests using the parameters and methods listed below:

On the following products or types of products:
Automotive, Aerospace, Military and Electrical/Electronic/Mechanical components and assemblies.

Test Type [1,2]	**Test Parameters**	**Test Method/Standard**
Random Vibration Single Axis Vibration Testing. Electro-dynamic vibration tables. Controllers using client methods within the following parameters:	Displacement: up to 2.5in pk-to-pk Force: Up to 15,000 force-lbs Frequency: 5 Hz to 2,500 Hz Temperature: (-50 to +150) °C. Ramp rate 10 °C/min max. Humidity: 30% to 95% RH Maximum Acceleration: 100gRMS	TL-6172; TL-6550; ASTM D4728; FCA CS.00056; GMW 3172[2;] GMW 3191; Hyundai/KIA ES95400-10; IEC 60068-2-64; ISO 16750-3; JDQ 53.3; MIL-STD-202(G,H) methods 214; MIL-STD-810(G,H) method 514; Nissan 28401NDS01; SAE J 1455; USCAR-2

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Test Type[1,2]	Test Parameters	Test Method/Standard
Sine Vibration Single Axis Vibration Testing. Electro-dynamic vibration tables. Controllers using client methods within the following parameters:	Displacement: up to 2.5in pk-to-pk Force: Up to 15,000 force-lbs Frequency: 5 Hz to 2,500 Hz Temperature: (-50 to +150) °C. Ramp rate 10 °C/min max. Humidity: 30% to 95% RH Maximum Acceleration: 140gRMS Velocity Continuous: 71 inches/second	TL-6172; TL-6550; Ford CETP:00.00-E-412; FCA CS.00056; GMW 3172; GMW 3191; Hyundai/KIA ES95400-10; IEC 60068-2-6; ISO 16750-3; JDQ 53.3; JIS D 1601; MIL-STD-202(G,H) methods 201, 204; MIL-STD-810(G,H) method 514; Nissan 28401NDS01; SAE J 1455; TSC 7000G; USCAR-2 UNECE R100 rev3 section 9A
Mechanical Shock Electro-dynamic vibration tables with mechanical shock controller using client methods within the following parameters:	Displacement: Up to 2.5 in pk-to-pk Force: Up to 40,000 lbf (half-sine) Acceleration: Up to 1500g (depending on product and fixture design, mass, and pulse duration) Temperature: (-50 to +150) °C Ramp rate 10°C/m max. Humidity: 30% to 95% RH Up to 100g (electrodynamic) (depending on product and fixture design, mass, and pulse duration)	Ford CETP:00.00-E-412; FCA CS.00056; GMW 3172[2]; GMW 3191; Hyundai/KIA ES95400-10; IEC 60068-2-27; ISO 16750-3; JDQ 53.3; MIL-STD-202(G,H) methods 213; MIL-STD-810(G,H) methods 516; Nissan 28401NDS01; SAE J 1455; TSC 7000G; USCAR-2

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Test Type[1,2]	Test Parameters	Test Method/Standard
	Up to 1500g (shock amplifier-pneumatic) (depending on product and fixture design, mass, and pulse duration)	
Vibration Test Fixture Transmissibility	Frequency: 5 Hz to 2,500 Hz	GMW 3172
Free Fall, Handling Drop		GMW3172; USCAR-2; ISO 16750-3; IEC 60068-2-31, Procedure 1; CS00056 section 5.4.6

[1] This scope meets A2LA's P112 Flexible Scope Policy.

[2] When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories.

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Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY BURTON

Burton, MI

for technical competence in the field of

Acoustics and Vibration 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 29th day of June 2026.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1123.01
Valid to May 31, 2028

For the tests to which this accreditation applies, please refer to the laboratory's Acoustics and Vibration Scope of Accreditation.

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