



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

BELEMENT ANALYSIS ENGINEERING LTD
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ACOUSTICS AND VIBRATION

Valid To: March 31, 2025

Certificate Number: 6930.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests:

<u>Test!</u>	<u>Test Method(s):</u>
Shock (1 to 100) gn	MIL-STD-810 F/G, Method 516 Procedure I (g _n = standard acceleration of gravity)
Vibration (5 to 2000) Hz	MIL-STD-810 F/G/H, Method 514.5, 514.6, Procedure I
	MIL-STD-810 F/G/H, Method 514, Procedure II
Thermal (-75 to 180) °C	MIL-STD-202F, G Method 108A, High Temperature; MIL-STD-810C Method 501.1, Procedure I, High Temperature, Procedure II, Temperature Cycling, Method 502.1, Procedure I, II, III Low Temperature
	MIL-STD-810D Method 501.2, Procedure I, II High Temperature, Method 502.2, Procedure I, II, III Low Temperature
	MIL-STD-810E Method 501.3, Procedure I, II High Temperature, Method 502.3, Procedure I, II Low Temperature, Method 502.3, Procedure III, Low Temperature
	MIL-STD-810F Method 501.4, Procedure I, II High Temperature, Method 502.4, Procedure I, II, III Low Temperature
	MIL-STD-810G Method 501.5, Procedure I, II High Temperature, Method 502.5, Procedure I, II, III Low Temperature, (Change 1) Method 501.6, Procedure I, II High Temperature, (Change 1) Method 502.6, Procedure I, II, III Low Temperature
	MIL-STD-810H Method 501.7, Procedure I, II High Temperature, Method 502.7, Procedure I, II, III Low Temperature

<u>Test!:</u>	<u>Test Method(s):</u>
<p>Highly Accelerated Life Testing (HALT)</p> <p>Highly Accelerated Stress Screening (HASS)</p> <p>Vibration: (5 to 2000) Hz; Thermal: (-80 to +170) °C</p>	<p>GMW8287 (limited vibration frequency to (5 to 2000) Hz):</p> <ul style="list-style-type: none"> • Cold Temperature Steps, • Hot Temperature Steps, • Rapid Temperature Changes, • Random Vibration - 3 Axis, • Combined Temperature and Vibration.
Rain, Water Test	<p>IEC 60529 IPX1 Vertically Dripping; IEC 60529 IPX2 Dripping (15° tilted); IEC 60529 IPX3 Spraying; IEC 60529 IPX4 Splashing; IEC 60529 IPX5 Jetting; IEC 60529 IPX6 Powerful Jetting; MIL-STD-810 C, Method 506, Procedure I. II MIL-STD-810 C/D Method 506.2, Procedures I and II; MIL-STD-810 E/F/G Method 506.4, Procedures I and III; MIL-STD-810G (Change 1) Method 506.6, Procedures I and III; MIL-STD-810H Method 506.6, Procedures I and III; RTCA DO-160 D, E, F, G Section 10; ISO 20653</p>
Immersion	<p>MIL-STD-810C /D /E /F /G Method 512, Procedure I and IV; MIL-STD-810G (Change 1) Method 512.6, Procedure I; MIL-STD-810H Method 512.6, Procedure I; ISO 20653: 2013 Degrees of protection (IP-Code), IPx7, IPx8; IEC 60529 IPX7 Immersion; IEC 60529 IPX8 Immersion</p>
Shock Free Fall / Drop Height Up to 1800 mm	<p>MIL-STD-810C Method 516, Procedure II, V; MIL-STD-810D /E /F /G /H, Method 516, Procedure IV, VI; MIL-STD-810C Method 516.2 Procedure II; MIL-STD-810DE Method 516.3 Procedures III and IV; MIL-STD-810F/ G /H Method 516 Procedure IV; MIL-STD-810G (Change 1) Method 516.7 Procedure IV</p>
Salt Fog	<p>MIL-STD-202F/ G Method 101D/ E Conditions A and B; MIL-STD-810C/ D/ E /F /G Method 509; MIL-STD-810G (Change 1) Method 509.6; MIL-STD-810H Method 509.7; RTCA DO-160D/ E/ F/ G/ Section 14</p>



<u>Test¹:</u>	<u>Test Method(s):</u>
Temperature and Humidity Thermal: (-70 to +180) °C Humidity: (20 to 98) %RH	MIL-STD-202F/G Method 103B, Conditions A, B, C, and D, Humidity; MIL-STD-202F/G Method 106E, Humidity; MIL-STD-810C Method 507.1, Procedures I, II, III, IV, and VI; MIL-STD-810D/E Method 507, Procedures I, II, and III; MIL-STD-810F Method 507.4, Procedure I; MIL-STD-810G Method 507.5, Procedures I and II; MIL-STD-810G (Change 1) Method 507.6; MIL-STD-810H Method 507.6; RTCA DO-160C, D, E, F, G, Section 6
Low Pressure (Altitude) Pressure: (101325 to 500) Pa Temperature: (-60 to +150) °C	MIL-STD-202F/G Method 105C, Conditions A, B, C, and F; MIL-STD-810C/D/E/F Method 500, Procedures I and II; MIL-STD-810G/H Method 500, Procedures I, II, and III; RTCA DO-160D/ E/ F/ G Section 4, Paragraph 4.6.1, MIL-STD-810C Method 504.1, Procedure I; MIL-STD-810D/E/F/G/H Method 520, Procedure I; MIL-STD-810G (Change 1) Method 520.4, Procedure I; RTCA DO-160D/ E/ G Section 4; Category Ax, Bx, Cx, Dx, Ex, Fx
Sand & Dust	MIL-STD-810 C/ D/ E/ F/ G, Method 510, Procedures I, II, and III; MIL-STD-810G (Change 1) Method 510.6, Procedures I and II; MIL-STD-810H Method 510.7, Procedures I and II; RTCA DO-160 C, D/ E/ F/ G/ Section 12, Procedure II; IEC 60529-2001 COR 1 2003, Degrees of Protection provided by Enclosures
Bounce, (Loose Cargo Vibration)	MIL-STD-810C Method 514.2, Procedure IX Part 2, X, and XI; MIL-STD-810D Method 514.3, Category 3, Procedure II; MIL-STD-810E Method 514.4, Category 3, Procedure III; MIL-STD-810F/ G/ H Method 514, Category 5, Procedure II; MIL-STD-810G (Change 1) Method 514.7, Category 5, Procedure II; IEC 60529-2001 COR 1 2003, Degrees of Protection provided by Enclosures

¹Also using customer supplied specifications directly related to the types of tests listed above customer and within the listed parameters.



Accredited Laboratory

A2LA has accredited

BELEMENT ANALYSIS ENGINEERING LTD

Rishon LeZion, Israel

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 2nd day of March 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6930.01
Valid to March 31, 2025

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