SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY ROCKFORD
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ELECTRICAL

Valid To: February 28, 2026 Certificate Number: 214.28

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

Test Technology:	**Test Method(s):**
Emissions	
Radiated Emissions	EN 55025 (section 6.5); MIL-STD-461C; MIL-STD-462C; MIL-STD-461 (RE101, RE102, RE103); MIL-STD-462D (RE101, RE102, RE103) [1]; MIL-STD-462 (RE01, RE02) [1]; RTCA/DO-160 C, D, E, F, and G, Sections 15 [1] and 21 [1]; 47 CFR FCC Part 15B (using ANSI C63.4:2014); 47 CFR FCC Part 18 (using MP-5:1986); VCCI V-3 (up to 6GHz); EN 55011; CISPR 11; AS CISPR 11; KS C 9811; EN 55012; CISPR 12; AS/NZS CISPR 12; EN 55014-1; CISPR 14-1; AS/NZS CISPR 14-1; KS C 9814-1; EN 55022; CISPR 22; AS/NZS CISPR 22; EN 55032; CISPR 32; AS/NZS CISPR 32; KS C 9832; EN/IEC 61000-6-3; EN/IEC 61000-6-4; AS/NZS 4268 + A1/A2; AS/NZS 4251-1; AS/NZS 4251-2; GB/T 18387:2017; EN 61326-2-6:2013; CISPR 11:2015 +A1:2016 +A2:2019; EN 61326-2-6:2013; IEC 61000-3-2:2018; EN 61326-2-6:2013; IEC 61000-3-3:2013 +A1:2017; ANSI C63.4:2014; ICES-003:2020; EN 61326-1:2021; EN 61326-2-6:2021; CISPR 11:2015 +A1:2016 +A2:2019; EN 61326-2-6:2021; IEC 61000-3-2:2018; EN 61326-2-6:2021; IEC 61000-3-3:2013 +A1:2017

Test Technology:	Test Method(s):
Conducted Emissions [1]	EN 55025 (sections 6.3 and 6.4); MIL-STD-461C; MIL-STD-462C; MIL-STD-461E, F, and G (CE101, CE102, CE106); MIL-STD-462D (CE101, CE102, CE106); MIL-STD-462 (CE01, CE03, CE07); RTCA/DO-160 C, D, E, F, and G, Section 21; 47 CFR FCC Part 15B (using ANSI C63.4:2014); 47 CFR FCC Part 18 (using MP-5:1986); VCCI V-3 (up to 6GHz); EN 55011; CISPR 11; AS CISPR 11; KS C 9811; EN 55012; CISPR 12; AS/NZS CISPR 12; EN 55014-1; CISPR 14-1; AS/NZS CISPR 14-1; KS C 9814-1; EN 55022; CISPR 22; AS/NZS CISPR 22; EN 55032; CISPR 32; AS/NZS CISPR 32; KS C 9832; EN/IEC 61000-6-3; EN/IEC 61000-6-4; AS/NZS 4268 + A1/A2; AS/NZS 4251-1; AS/NZS 4251-2AS/NZS 4250-1; AS/NZS 4250-2; CISPR 16-2-1: 2014 +A1:2017; EN 61326-2-6:2013; CISPR 11:2015 +A1:2016 +A2:2019; EN 61326-2-6:2013; IEC 61000-3-2:2018; EN 61326-2-6:2013; IEC 61000-3-3:2013 +A1:2017; ANSI C63.4:2014; ICES-003:2020; EN 61326-1:2021; EN 61326-2-6:2021; CISPR 11:2015 +A1:2016 +A2:2019; EN 61326-2-6:2021; IEC 61000-3-2:2018; EN 61326-2-6:2021; IEC 61000-3-3:2013 +A1:2017
Immunity	
Electrostatic Discharge (ESD) [1]	EN/IEC 61000-4-2; AS/NZS 610004.2; KS C 9610-4-2; RTCA/DO-160 C, D, E, F, and G, Section 25; MIL-STD-1686C; MIL-STD-461G (CS118); EN 61326-2-6:2013; IEC 61000-4-2:2008; IEC 60601-1-2:2014; IEC 61000-4-2:2008; EN 61326-1:2021; EN 61326-2-6:2021; IEC 61000-4-2:2008; IEC 60601-1-2:2020; IEC 61000-4-2:2008
Partial Discharge [1]	IEC 61558-1:2017; IEC 61558-2-16:2021
Dielectric Test [1]	IEC 61558-1:2017; IEC 61558-2-16:2021
Electrical Fast Transient/Burst [1]	EN/IEC 61000-4-4; AS/NZS 61000.4.4; KS C 9610-4-4; EN 61326-2-6:2013; IEC 61000-4-4:2012; IEC 60601-1-2:2014; IEC 61000-4-4:2012; EN 61326-1:2021; EN 61326-2-6:2021; IEC 60601-1-2:2020

Test Technology:	Test Method(s):
Surge Immunity [1]	EN/IEC 61000-4-5; AS/NZS 61000.4.5; KS C 9610-4-5; IEEE C62-41IEEE C62.41.1; IEEE C62.42.2; EN 61326-2-6:2013; IEC 61000-4-5:2014 +A1:2017; IEC 60601-1-2:2014; IEC 61000-4-5:2014 +A1:2017; EN 61326-1:2021; EN 61326-2-6:2021; IEC 60601-1-2:2020
Radiated [1]	EN/IEC 61000-4-3; AS/NZS 61000.4.3; KS C 9610-4-3; MIL-STD-461E, F, and G (RS101, RS103, RS105); MIL-STD-462D (RS101, RS103); MIL-STD-462 (RS01, RS02, RS03); MIL-STD-461C; MIL-STD-462C; RTCA/DO-160 C, D, E, F, and G, Section 20; EN 61326-2-6:2013; IEC 61000-4-3:2010; IEC 60601-1-2:2014; IEC 61000-4-3:2010; EN 61326-1:2021; EN 61326-2-6:2021; IEC 60601-1-2:2020
Conducted [1]	EN/IEC 61000-4-6; AS/NZS 61000.4.6; KS C 9610-4-6; MIL-STD-461E, F, and G (CS103, CS104, CS105, CS109, CS114, CS115, CS116); MIL-STD-461C; MIL-STD-462C MIL-STD-462D (CS103, CS104, CS105, CS109, CS114, CS115, CS116) MIL-STD-462 (CS01, CS02, CS06); RTCA/DO-160 C, D, E, F, and G, Section 20; EN 61326-2-6:2013; IEC 61000-4-6:2013; IEC 60601-1-2:2014; IEC 61000-4-6:2013
Power Frequency Magnetic Field [1]	EN/IEC 61000-4-8; AS/NZS 61000.4.8; KS C 9610-4-8; RTCA/DO-160 C, D, E, F, G, Section 15; MIL-STD-461D, E, F, G, (RS101); MIL-STD-462 (RS01); MIL-STD-461C; MIL-STD-462C; EN 61326-2-6:2013; IEC 61000-4-8:2009; IEC 60601-1-2:2014; IEC 61000-4-8:2009
Voltage Dips/Interrupts and Variations [1]	EN/IEC 61000-4-11; AS/NZS 61000.4.11; KS C 9610-4-11
Voltage Spike [1]	RTCA/DO-160 C, D, E, F, and G, Section 17; MIL-STD-461F (CS106); EN 61326-2-6:2013; IEC 61000-4-11:2004 +A1:2017; IEC 60601-1-2:2014; IEC 61000-4-11:2004 +A1:2017; IEC 60664
Power Input [1]	RTCA/DO-160 C, D, E, F, and G, Section 16; MIL-STD-704A, B, C, D, E, and F

Test Technology:	**Test Method(s):**
Audio Frequency Conducted Susceptibility [1]	RTCA/DO-160 C, D, E, F, and G, Section 18; MIL-STD-461D, E, F, and G (CS101); MIL-STD-462 (CS01); MIL-STD-461C; MIL-STD-462C
Induced Signal Susceptibility [1]	RTCA/DO-160 C, D, E, F, and G, Section 19
Lightning Induced Transient [1]	RTCA/DO-160 C, D, E, F, and G, Section 22; MIL-STD-461G (CS117)
Automotive Radiated & Conducted Emissions	CISPR 25 for RE (2016, 2021) Section 6.5; CISPR 25 for CE (2016, 2021) Sections 6.3 and 6.4; EN 55025; GB/T 18387:2017; GB/T 34660: 2017; *(The United Nations Economic Commission for Europe (UNECE)):* ECE Regulation 10
ESD	ISO 10605; ISO 10605: 2008
Bulk Current Injection (BCI)	ISO 11451-1; ISO 11452-4
Immunity of vehicles to electromagnetic disturbances from on-board transmitters	ISO 11451-3
Portable Transmitters	ISO 11452-9
Electric vehicle conductive charging system	IEC 61851-21-1
Generic and Product Family Standards	EN/IEC 61000-6-1; AS/NZS 61000.6.1; EN/IEC 61000-6-2; AS/NZS 61000.6.2; CISPR 14-2; EN 55014-2; AS/NZS CISPR 14-2; CISPR 24; EN 55024; AS/NZS CISPR 24; KS C 9824; CISPR 35 *(excluding Annex A-H)*; EN 55035 *(excluding Annex A-H)*; AS/NZS CISPR 35 ; KS C 9835 *(excluding Annex A-H)*; BS EN/IEC 60601-1-2; BS EN/IEC 60947-1; BS EN/IEC 60439-1; BS EN/IEC 61326-1; BS EN/IEC 61326-2; BS EN 50130-4; BS EN 50131-1; EN 61800-3; IEC 61800-3 (*up to 75A, 1000V*); CISPR 15: 2018; CISPR 16-1-1: 2019; IEC 61851-21-1:2017; IEC 61800-5-1:2022

On the following product types:
Aerospace, Defense, Telecommunications, Electrical, Electronics, Automotive, and Commercial.

[1] This laboratory performs field testing activities for the noted tests.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.:

Rule Subpart/Technology	**Test Method**	**Maximum Frequency (MHz)**
Unintentional Radiators		
Part 15B	ANSI C63.4:2014	18000
Industrial, Scientific, and Medical Equipment		
Part 18	FCC MP-5 (February 1986)	18000

Note: Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.

Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY ROCKFORD

Rockford, IL

for technical competence in the field of

Electrical 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 19th day of March 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 214.28
Valid to February 28, 2026

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