



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: November 30, 2026

Certificate Number: 214.55

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on armor systems, armored windows, bullet cores, ceramics, composites, electronics, eyewear, flexible armored fabrics, helmets, metals, and personal body armor systems:

<u>Test Description:</u>	<u>Test Standard(s)/Method(s):</u>
Ballistics	
Aluminum Alloy Armor Rolled Plate (½ to 4) Inches Thick, Weldable (Alloy 2519)	MIL-DTL-46192C (MR)
Armor Plate, Aluminum Alloy, 7039	MIL-DTL-46063H
Armor Plate, Aluminum Alloy, Weldable 5083 and 5456	MIL-A-46027H
Armor Plate, Titanium Alloy, Weldable	MIL-DTL-46077G
Armor Plate, Steel, Wrought, Ultra-High Hardness	MIL-DTL-32332 (MR)
Armor Plate, Steel, Wrought, High-Hardness	MIL-A-46100E
Ballistic Resistance of Personal Body Armor	NIJ 0101.04, 0101.06, 0101.07
Ballistic Resistant Protective Materials	NIJ 0108.01
<u>Specification for NIJ Ballistic Protection Levels and Associated Test Threats</u>	NIJ 0123
Ballistic Test Method for Personal Armor Materials and Combat Clothing	STANAG 2920 - AEP 2920; STANAG 2920 Ed. 3
Drug Enforcement Administration (DEA) Body Armor Testing Protocol	DEA 2018
Evaluating the Protection Level of Logistic and Light Armored Vehicles	AEP-55 (Vol. 1, Ed. 1)
FBI Body Armor Test Protocol	FBI Body Armor Test Protocol v4.1
Improved Outer Tactical Vest (IOTV) Gen III	FQ/PD 07-05 (3.6.1, 3.7)
Performance Specification Special Operations Forces Personal Equipment Advanced Requirements (SPEAR)	MICH – Lightweight (3.6.1, 3.6.2, 3.8, 3.10, 3.11, 3.12, 3.13, 3.14, 3.17, 3.18, 3.19, 3.21.2.1, 3.21.2.2)
Protection Levels for Occupants of Logistic and Light Armored Vehicles	STANAG 4569
Purchase Description: Personal Armor Enhanced Side Ballistic Insert (ESBI)	AR/PD 11-06 (3.7.2, 3.7.3, 3.7.6, 3.8.2, 3.8.3, 3.8.4, 3.8.5)
Purchase Description: Personal Enhanced Small Arms Protective Insert (ESAPI)	CO/PD 04-19G (3.8.2, 3.8.3, 3.8.6, 3.9)

<u>Test Description:</u>	<u>Test Standard(s)/Method(s):</u>
Ballistics (continued)	
Purchase Description Transparent Armor	ATPD 2352T (Except 3.3.6, 4.6.1)
V50 Ballistic Test for Armor	MIL-STD-662F
Bullet Resisting Equipment	UL 752 (11)
Fragmentation Helmet, Lightweight, USMC	FQ/PD 06-35C (3.4.2, 3.4.3.4, 3.4.9.2, 3.6, 3.8.2, 3.8.3, 3.8.4, 3.8.5, 3.8.6, 3.8.8, 3.8.10)
Military Specification Helmet, Ground Troops and Parachutists ¹	MIL-H-44099A (3.5.1, 3.5.2, 3.6)
Purchase Description for the Enhanced Combat Helmet (ECH) ¹	GL-PD-09-040
Glass in Building – Security Glazing – Testing and Classification of Resistance Against Bullet Attack	BS EN 1063:2000
NIJ Standard for Ballistic Helmets	NIJ 0106.01
NIJ Standard for Riot Helmets and Face Shields	NIJ 0104.02
Performance Specification Family of Tactical Headborne Systems	(FTHS) Ballistic and Non-Ballistic Helmets
Performance Specification Family of Tactical Headborne Systems	(FTHS) Coxswain Helmet
Helmet, Advance Combat, Second Generation (ACH GEN II)	AR/PD 14-01
Helmet, Advanced Combat – ACH	CO/PD 05-04
Purchase Description for the Advanced Combat Helmet (ACH)	AR/PD 10-02 Revision A, Change 3 (3.5.6.3, 3.7.1.2, 3.9, 3.10, 3.11, 3.12.10, 3.12.11, 3.12.12)
ADF Personal Armour Test Standard, Part 1: Body Armour	DEF(AUST) 10946/Issue 1.0/Type S Dated 03 APR 2012
CFR Safety Glazing Standards-Locomotives, Passenger Cars, and Cabooses	CFR-2011 Title 49 Volume 4 Part 223
Environmental Simulation	
Environmental Engineering Considerations and Laboratory Tests (-68 to 155) °C and (20 to 100) %RH	MIL-STD-810G, H (501.5, 502.5, 503.5, 504.1, 507.5)
Eye and Face Protective Equipment	
Non-Prescription Sunglasses and Fashion Eyewear – Requirements	ANSI Z80.3, Sections 4.2 and 5.1
Occupational and Educational Eye and Face Protection	ANSI Z87.1, Section 9.12
Visors, Flyer’s Helmet, Polycarbonate	MIL-DTL-43511D (3.5.10)
Haze and Luminous Transmittance	ASTM D1003
Hardness	
Rockwell Hardness Testing Scales: (HRB, HRC, HR15N)	ASTM E18
Helmets	
Motorcycle Helmets	DOT FMVSS 218; 49 CFR 571.218 Section 7.1
Mass per Unit Area (Weight) of Woven Fabric	ASTM D3776, Option C
Thickness of Textile Materials	ASTM D1777
Aviation Helmet Standard	DOI/USFS – Ver 4.3 (except sections 6.9 and 6.10)
Combat Helmets	AEP – 2902, Edition A Version 1 (except chapters 15, 16 and 18)
Sports Equipment	
Baseballs and Softballs	
Coefficient of Restitution (COR)	ASTM F1887, Method A

<u>Test Description:</u>	<u>Test Standard(s)/Method(s):</u>
Sports Equipment (cont.)	
Baseballs and Softballs (cont.)	
Compression – Displacement	ASTM F1888
Bats	
Measuring High-Speed Bat Performance	ASTM F2219
Moment of Inertia and Center of Percussion of a Baseball or Softball Bat	ASTM F2398
Softball and Baseball Bat Barrels – Displacement Compression	ASTM F2844
Softball Bat Performance Factor	ASTM F1890
USSSA Standard for Testing Slow Pitch Bat Performance	Testing in Support of USSSA Slow Pitch Bat Certification
USSSA Standard for Testing Senior Youth Bat Performance	Testing in Support of USSSA Senior Youth Bat Performance
Senior Softball USABPF Bat Standard	SSUSA
Pickleball	
USA Pickleball Certification Standard	USA Pickleball 2020
USA Pickleball Paddle Certification Standard	USA Pickleball Paddle 2020
Helmets & Faceguards	
Bicycle or Roller Skating Helmets	ASTM F1447; CPSC 16 CFR Part 1203
Faceguards for Youth Baseball	ASTM F910
Football Helmets	ASTM F429 -10 (Withdrawn 2017)
Headgear Used in Horse Sports and Horseback Riding	ASTM F1163
Headgear Used in Women’s Lacrosse (excluding Goalkeepers)	ASTM F3137
Headgear Used in Soccer	ASTM F2439
Helmets Used for Recreational Snow Sports	ASTM F2040
Helmets Used in Short Track Speed Ice Skating (Not to Include Hockey)	ASTM F1849
Helmets Used in Skateboarding and Trick Roller Skating	ASTM F1492
Standard Test Methods for Protective Headgear	ASTM F1446, Except 12.9
Standard Test Method and Equipment Used in Evaluating the Performance Characteristics of Protective Headgear/Equipment	NOCSAE DOC (ND) 001
Standard Linear Impactor Test Method and Equipment Used in Evaluating the Performance Characteristics of Protective Headgear and Faceguards	NOCSAE DOC (ND) 081
Standard Projectile Impact Testing Method and Equipment Used in Evaluating the Performance Characteristics of Protective Headgear, Faceguards or Projectiles	NOCSAE DOC (ND) 021
Standard Test Method and Specification used in Evaluating the Corrosion Characteristics of Hardware	NOCSAE DOC (ND) 015
Standard Performance Specification for Newly Manufactured Baseball/Softball Batter’s Helmets	NOCSAE DOC (ND) 022
Standard Performance Specification for Newly Manufactured Baseball/Softball Catcher’s Helmets with Faceguard	NOCSAE DOC (ND) 024
Standard Performance Specification for Newly Manufactured Youth Baseballs	NOCSAE DOC (ND) 027
Standard Performance Specification for Newly Manufactured Baseball/Softball Fielder’s Headgear	NOCSAE DOC (ND) 029

<u>Test Description:</u>	<u>Test Standard(s)/Method(s):</u>
Sports Equipment (cont.)	
Standard Performance Specification for Newly Manufactured Baseball/Softball Batter's Helmet Mounted Face Protector	NOCSAE DOC (ND) 072
Standard Performance Specification for Newly Manufactured Football Helmets	NOCSAE DOC (ND) 002
Standard Method of Impact Test and Performance Requirements for Football Faceguards	NOCSAE DOC (ND) 087
Standard Performance Specification for Newly Manufactured Field Hockey Headgear	NOCSAE DOC (ND) 061
Standard Performance Specification for Newly Manufactured Field Hockey Balls	NOCSAE DOC (ND) 069
Standard Performance Specification for Newly Manufactured Hockey Helmets	NOCSAE DOC (ND) 030
Standard Performance Specification for Newly Manufactured Hockey Face Protectors	NOCSAE DOC (ND) 035
Standard Performance Specification for Newly Manufactured Lacrosse Helmets with Faceguard	NOCSAE DOC (ND) 041
Standard Performance Specification for Newly Manufactured Lacrosse Face Protectors	NOCSAE DOC (ND) 045
Standard Performance Specification For Newly Manufactured Lacrosse Balls	NOCSAE DOC (ND) 049
Standard Performance Specification for Newly Manufactured Polo Helmets	NOCSAE DOC (ND) 050
Standard Performance Specification for Helmet Mounted Polo Eye Protection	NOCSAE DOC (ND) 055
Standard Test Method and Performance Specification for Newly Manufactured Soccer Shin Guards	NOCSAE DOC (ND) 090

Material Specifications¹:

Headforms	ASTM F2220
Headgear Used in Electric Personal Assistive Mobility Devices	ASTM F2416
Helmets for Non-Motorized Wheeled Vehicles Used by Infants and Toddlers	ASTM F1898
Football Helmets	ASTM F717
Standard Guide for Manufacturers for Labeling Headgear Products	ASTM F2727

¹ The laboratory is only accredited for the test methods and standards listed above. The accredited test methods are used in determining compliance with the material specification listed. The inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications listed in this section.



Accredited Laboratory

A2LA has accredited

Element U.S. Space & Defense

Belcamp, MD

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 11th day of December 2024.

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 214.55
Valid to November 30, 2026

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