



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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MECHANICAL

Valid to: December 31, 2018

Certificate Number: 3369.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, *as well as the (1) satellite laboratory location listed below*, 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>
<u>Ballistics</u>	
Performance Specification USMC Small Arms Protective Insert (SAPI) ¹	USMC Small Arms Protective Insert (SAPI)
Related Testing:	
Aluminum Alloy Armor Rolled Plate (½ to 4) Inches Thick, Weldable (Alloy 2519) ¹	MIL-DTL-46192C (MR)
Armor Plate, Aluminum Alloy, 7039 ¹	MIL-DTL-46063H
Armor Plate, Aluminum Alloy, Weldable 5083 and 5456 ¹	MIL-A-46027H
Armor Plate, Titanium Alloy, Weldable ¹	MIL-DTL-46077G
Armor Plate, Steel, Wrought, Ultra-High Hardness ¹	MIL-DTL-32332 (MR)
Armor Plate, Steel, Wrought, High-Hardness ¹	MIL-A-46100E
Ballistic Resistance of Personal Body Armor ¹	NIJ 0101.04, 0101.06
Ballistic Resistant Protective Materials ¹	NIJ 0108.01
Ballistic Test Method for Personal Armor Materials and Combat Clothing ¹	STANAG 2920
Body Armor, Multiple Threat/Interceptor Deltoid and Axillary Protector ¹	FQ/PD 07-10 (3.5.2)
Cloth, Ballistic and Aramid ¹	MIL-C-44050A
Drug Enforcement Administration (DEA) Body Armor Testing Protocol ¹	DEA 2009
Evaluating the Protection Level of Logistic and Light Armored Vehicles ¹	AEP-55 (Vol. 1, Ed. 1)
FBI Body Armor Test Protocol ¹	FBI Body Armor Test Protocol (1.0, 2.0)
Improved Outer Tactical Vest (IOTV) Gen III ¹	FQ/PD 07-05F (3.6.1, 3.7)
Laminate: Fiberglass-Fabric-Reinforced, Phenolic ¹	MIL-L-64154 (3.4)
Marine Corps Systems Command PM Infantry Combat Equipment ¹	ICE-TP-002 (1.1, 1.2, 1.3.1, 1.3.2, 1.3.5, 1.3.6, 1.3.8)
Nape Pad ¹	AR/PD 10-01 Rev A (3.7)

<u>Test Description</u>	<u>Test Standard(s)/Method(s)</u>
<u>Ballistics (cont.)</u>	
PEO Soldier - US Army ¹	Zheng Protocols
Performance Requirements and Testing of Body Armor	MIL-STD-3027 (4.5.1, 4.5.2, 4.6.1, 4.7.2, 4.7.3, 4.7.6, 4.8)
Performance Specification Special Operations Forces Personal Equipment Advanced Requirements (SPEAR) ¹	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)
Personal Armor X-Side Ballistic Insert (XSBI) ¹	AR/PD 10-03 (3.6.2, 3.8.2, 3.8.3, 3.8.6, 3.9)
Personal Armor X Small Arms Protective Insert (XSAPI) ¹	FQ/PD 07-03B (3.8.2, 3.8.3, 3.8.6, 3.9)
Protection Levels for Occupants of Logistic and Light Armored Vehicles ¹	STANAG 4569
Purchase Description: Body Armor, Personal Arms Protective Insert (SAPI) ¹	CO/PD 00-03D (3.8.2, 3.8.3, 3.8.6, 3.9)
Purchase Description: Body Armor, Multiple Threat/Interceptor ¹	CO/PD 00-02G (3.5.2)
Purchase Description: Personal Armor Enhanced Side Ballistic Insert (ESBI) ¹	AR/PD 11-06A (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) ¹	CO/PD 04-19G (3.8.2, 3.8.3, 3.8.6, 3.9)
Purchase Description Transparent Armor ¹	ATPD 2352T (Except 3.3.6, 4.6.1)
V50 Ballistic Test for Armor ¹	MIL-STD-662F
<u>Bullet Resisting Equipment</u>	
Fragmentation Helmet, Lightweight, USMC ¹	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)
<u>Related Testing:</u>	
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-09-04G (3.5.6.6, 3.6.3, 3.6.4, 3.7.1.2, 3.9, 3.10, 3.11, 3.12.10, 3.12.11, 3.12.12)
Glass in Building – Security Glazing – Testing and Classification of Resistance Against Bullet Attack ¹	BS EN 1063:2000
NIJ Standard for Ballistic Helmets ¹	NIJ 0106.01 (except 4.8)
Purchase Description for the Advanced Combat Helmet (ACH) ¹	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
<u>Environmental Simulation</u>	
Environmental Engineering Considerations and Laboratory Tests (-68 to 155) °C and (20 to 100) %RH	MIL-STD-810G (501.5, 502.5, 503.5, 504.1, 507.5)
<u>Eye and Face Protective Equipment</u>	
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)



<u>Test Description</u>	<u>Test Standard(s)/Method(s)</u>
<u>Helmets</u>	
Motorcycle Helmets	DOT FMVSS 218; 49 CFR 571.218 Section 7.1
Mass per Unit Area (Weight) of Woven Fabric	ASTM D3776, Option C
Rockwell Hardness Testing Scales: (HRB, HRC)	ASTM E18 – 08b
Thickness of Textile Materials	ASTM D1777
<u>Sports Equipment</u>	
Baseballs and Softballs	
Coefficient of Restitution (COR)	ASTM F1887, Method A
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
Body Protectors Used in Horse Sports and Horseback Riding	ASTM F1937
Faceguards for Youth Baseball	ASTM F910
Gloves and Hand Coverings	
Newly Manufactured Football Players Hand Coverings	ND019-10m15a
SFIA Football Glove Specification	SFIA FBG V.001
Helmets	
Bicycle or Roller Skating Helmets	ASTM F1447; CPSC 16 CFR Part 1203
Football Helmets	ASTM F429
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 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



<u>Test Description</u>	<u>Test Standard(s)/Method(s)</u>
<u>Sports Equipment (cont.)</u>	
Standard Performance Specification for Newly Manufactured Baseball/Softball Fielder's Headgear	NOCSAE DOC (ND) 029
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



¹ This accreditation covers testing performed at the main laboratory listed above, and the following satellite laboratory listed below.

The following test types can only be performed at:

121 Bata Blvd. Suite F
Belcamp, MD 21017

<u>Test Description</u>	<u>Test Standard(s)/Method(s)</u>
Standard Test Method for Glazing for Detention Facilities	ASTM F1915-05
Standard Test Method for Security Glazing Materials and Systems	ASTM F1233-08
Forced Entry and Ballistic Resistance of Structural Systems	SD-STD-01.01, Revision G (Amended)

Material Specifications²:

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

²The 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.

The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>.





Accredited Laboratory

A2LA has accredited

CHESAPEAKE TESTING SERVICES INC.

Belcamp, MD

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009).



Presented this 8th day of March 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 3369.01
Valid to December 31, 2018
Revised November 28, 2018

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