



2873 22nd St SE
Salem, OR 97302

Tel: 503.540.8114
Fax: 503.362.5597
www.oregonbl.com
ISO/IEC 17025:2017 Accredited Laboratory
NVLAP Code: 200826-0

August 29, 2022

RMA Armament
22800 Dewey Rd
Centerville, IA 52544
ATTN: Blake Waldrop

Dear Mr. Waldrop:

In accordance with your instructions, Oregon Ballistic Laboratories conducted Ballistic Resistance (V_0) testing on one sample.

The sample was tested in accordance with NIJ-STD-0101.06 Level III (abbreviated) (modified) – Special Threat in an indoor range with the muzzle of the test barrel mounted 50 feet away from the target and positioned to produce 0-degree obliquity impacts. Four Oehler model 57 infrared velocity light screens, in conjunction with two HP 5315A time-based frequency counters, were placed such that projectile velocity was measured 8.25 feet from the target. Penetrations were determined by examination of a 5.5-inch clay block mounted behind the test sample. Results for all testing performed for this purpose are summarized in the following table.

Test Sample			Ballistic Threat			Results		
OBL No.:	Sample:	Weight (lbs.)	Projectile	Shots	Velocity (fps)	Penetrations	BFD (mm)	Pass/Fail
34595	001	4.99	Type 56 MSC	1	2357	0	36.27	<u>PASS</u>
			M855 A1	1	3142	0	25.20	<u>PASS</u>
			M193	1	3258	0	31.56	<u>PASS</u>

*Data shown in the table represents fair impacts only.

This report pertains only to the samples tested and may not be modified or edited in any way. This report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any federal government agency. Samples will be maintained at Oregon Ballistic Laboratories for 30 days and discarded unless other instructions are received. If you have any further questions or concerns, don't hesitate to contact us.

Darius Nuttbrock
Ballistic Test Director
Oregon Ballistic Laboratories
503.689.5134
Email: dnuttbrock@oregonbl.com

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 34595
 Date Rcv'd: 1/30/2023
 Test Date: 2/1/2023
 Purchase Order:

TEST SAMPLE

Sample No.: 001
 Model No.: N/A
 Lot No.: N/A
 Plies: N/A
 Description: Level III Hard Armor Plate

Size (in.): 10 x 12
 Weight (lb.): 4.99
 Thickness: 0.515
 Avg. Thk. (in): 0.515

RANGE SET-UP

Range to Target: 50 ft. Range #: 2
 Screen Dist. Vel. 1 (ft.): 5 Temperature: 69.5 °F
 Screen Dist. Vel. 2 (ft.): 4 Bar. Pressure: 30.04 in. Hg
 Screen 4 to target (ft): N/A Rel. Humidity: 21.5 %
 Primary Vel. Location: 8.25 ft. from target Sample Temp. Amb. °F
 Striking Velocity: No Recorder: Jason Stone
 Target to Witness: N/A Gunner: Jerhemi Stone
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: 7.62x39mm/1:9.45/30"

Pre Test:
 Clay Drops (mm): 20.86 20.55 20.32 20.54 20.64
 Drop Avg (mm): 20.58
 Clay Temp °F: 98.1
 Clay Box #: 4
 Post Test:
 Clay Drops (mm): 19.59 20.16 19.47 19.69 20.36
 Drop Avg (mm): 19.85
 Clay Temp °F: 95.4

AMMUNITION

Projectile: 7.62x39mm Type 56 MSC

Powder: IMR 4227

STANDARDS / PROCEDURES

NIJ-STD-0101.06 Level III (abbrev) (mod) - Special Threats

Required Velocity: 2380 fps ± 30 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	122.8	21.7	2125	1694	2353	2361	2357	P	0°	36.27	TL
2	62.1	19.5	1592	1273	3141	3142	3142	P	0°	25.20	MR - M855A1 - 3115 fps +/- 30 fps
3	55.0	19.5	1534	1228	3259	3257	3258	P	0°	31.56	BL - M193 - 3250 fps +/- 30 fps

REMARKS:

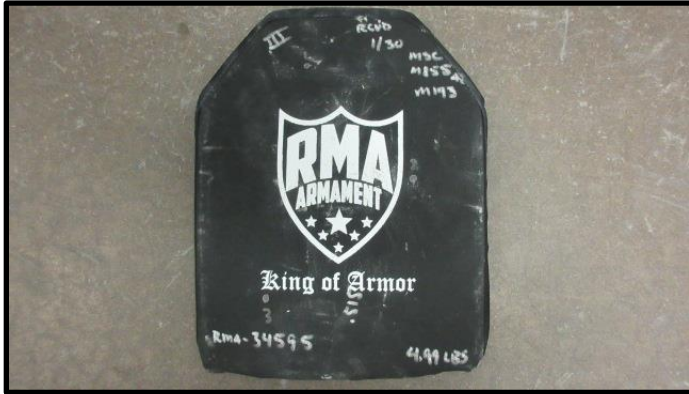
P=Partial Penetration
 C=Complete Penetration
 UH=Unfair Hit
 Projectile Yaw Check: <5° for all velocity shots

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was not subjected to Armor Drop Test.
 Sample was not subjected to Armor Submersion.



OBL #34595 – Post Test

