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ISO/IEC 17025:2017 Accredited Laboratory

NVLAP Code: 200826-0

February 8, 2023

Caliber Armor LLC 1421 Selinda Ave. Louisville, KY 40213 ATTN: Kevin Strnatka

Dear Mr. Strnatka:

In accordance with your instructions, Oregon Ballistic Laboratories conducted Ballistic Resistance (V₀) testing on one sample.

The sample was tested in accordance with NIJ-STD-0101.07 (draft) Level RF2 (abbreviated) (modified) – Special Threat in an indoor range with the muzzle of the test barrel mounted 50 feet 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.:	S/N:	Weight (lbs.)	Projectile	Shots	Velocity (fps)		Penetrations	BFD		Pass/Fail
					Min:	Max:	Penelialions	Min:	Max:	rass/rall
34598	812270-AV2- 003	7.32	M855	3	3295	3314	0	16.08	16.25	<u>PASS</u>
			M855 A1	1	3012		0	8.44		<u>PASS</u>
			LPS	1	2812		0	26.15		<u>PASS</u>

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 - Vo

Caliber Armor LLC Customer:

OBL ID#: 34598 Date Rcv'd: 1/27/2023 Test Date: 2/1/2023 Purchase Order:

TEST SAMPLE

812270-AV2-003 19-AV2-1012-SPC Serial No.: Model No.: Lot No.: 812270 N/A

Description: Level RF2 Hard Armor Plate

Size (in.): Weight (lb.):

10 x 12 7.32 0.471

Thickness: Avg. Thk. (in): 0.471

RANGE SET-UP

Range to Target: Screen Dist. Vel. 1 (ft.): 50 ft. Screen Dist. Vel. 2 (ft.): Screen 4 to target (ft):

Temperature: Bar. Pressure: Rel. Humidity: 8.25 ft. from target Sample Temp. Recorder:

Range #:

Gunner:

69.5 °F 30.05 in. Hg 23.3 % Jason Stone Jerhemi Stone Pre Test: 20.86 Clay Drops (mm): 20.58 Drop Avg (mm): 98.1 Clay Temp °F: Clay Box #: Post Test: 19.59 Clay Drops (mm):

20.16 19.47

20.32

19.69 20.36

20.64

Primary Vel. Location: Striking Velocity: Target to Witness:

N/A N/A

5.5" clay block w/ 3/4" plywood backing

Drop Avg (mm): Clay Temp °F:

20.54

Backing Material: Obliquity: Barrel:

0 Degrees 5.56mm NATO/1:7/30"

95.4

19.85

AMMUNITION

Witness Panel:

5.56mm SS109/M855 Ball

Powder: IMR 4227

Required Velocity:

20.55

3300 fps ± 30 fps

STANDARDS / PROCEDURES NIJ-STD-0101.07 (draft) RF2 (abbrev) (mod) - Special Threat

VELOCITY 1 ROJECTILE OWDER VELOCITY 2 **AVERAGE** TIME 1 OBLIQUITY NOTES WT. (gr.) VELOCITY NO. WT. (gr.) μs (10⁻⁶) μs (10⁻⁶) ft/s ft/s P/C BFD 62.7 21.1 1209 3318 3309 3314 Ъ 16.08 62.7 21.1 1519 1213 3292 3298 3295 0° 16.25 3 62.9 21.1 1510 1210 3311 3306 3309 0° MR / Switched to M855A1 @ 3000 fps +/- 30 fps 4 62.1 18.6 1658 1330 3016 3008 3012 Р 0° 5 146.7 38.1 1776 1424 2815 2809 2812 Р 0° 26.15 TR / Switched to LPS @ 2800 fps +/- 30 fps / N130

REMARKS:

P=Partial Penetration C=Complete Penetration UH=Unfair Hit

Projectile Yaw Check: <5° for all velocity shots ange Set-up per NIJ-STD-0101.06

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

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