



June 3, 2020

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 IV (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 infrared light screens, in conjunction with 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.:	Serial No.:	Weight (lbs.)	Projectile	Shots	Velocity (fps)	Penetrations	BFD (mm)	Pass/Fail
24918	Test Plate	5.79	.30cal. M2 AP	1	2898	0	40.76	<u>PASS</u>
			M855 A1	1	3040	0	5.35	<u>PASS</u>
			Type 56 MSC	1	2346	0	19.48	<u>PASS</u>

Samples will be maintained at Oregon Ballistic Laboratories for 30 days and then discarded unless other instructions are received. If you have any further questions or concerns, please contact us.

Sincerely,

Darius Nuttbrock
Oregon Ballistic Laboratories



BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament, Inc.
 OBL ID#: 24918
 Date Rcv'd: 5/18/2020
 Test Date: 6/1/2020
 Purchase Order:

TEST SAMPLE		Size (in.):	9.5 x 12.5
Serial No.:	Test Plate	Weight (lb.):	5.79
Lot No.:	Test Plate	Thickness:	
Model No.:	N/A	Avg. Thk. (in.):	
Plies:	N/A		
Description:	Level IV Hard Armor Plate		

RANGE SET-UP		Range #:	2	Pre Test:					
Range to Target:	50 ft.	Temperature:	67.0 °F	Clay Drops (mm):	18.90	19.94	19.24	18.59	18.96
Screen Dist. Vel. 1 (ft.):	5	Bar. Pressure:	30.13 in. Hg	Drop Avg (mm):	19.13				
Screen Dist. Vel. 2 (ft.):	5	Rel. Humidity:	49.2 %	Clay Temp °F:	96.8				
Screen 4 to target (ft):	N/A	Sample Temp.	Amb. °F	Clay Box #:	4				
Primary Vel. Location:	8.25 ft. from target	Recorder:	Aubrey Rogers	Post Test:					
Striking Velocity:	No	Gunner:	Josh Humphreys	Clay Drops (mm):	17.22	16.74	17.76	17.02	17.48
Target to Witness:	N/A			Drop Avg (mm):	17.24				
Witness Panel:	N/A			Clay Temp °F:	93.2				
Backing Material:	5.5" clay block w/ 3/4" plywood backing								
Obliquity:	0 Degrees								
Barrel:	.308/1:9/30"								

AMMUNITION		Powder:	VihtaVuori N133
Projectile:	.30 cal. 160gr. M2 AP lot# LC 13575		

STANDARDS / PROCEDURES		Required Velocity:	2880 fps ± 30 fps
NIJ-STD-0101.06 Level IV (abbrev) (mod) - Special Threat			

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	161.8	45.0	1718	1733	2910	2885	2898	P	0°	40.76	
2	62.4	26.9	1645	1645	3040	3040	3040	P	0°	5.35	Switched to M855A1 / BLC-2 / 3115 fps
3	122.6	27.9	2131	2131	2346	2346	2346	P	0°	19.48	Switched to Type 56 MSC / Reloader 10X / 2380 fps

REMARKS:	TEST RESULTS:
P=Partial Penetration C=Complete Penetration UH=Unfair Hit	Test sample satisfied the ballistic requirements given.
	FOOTNOTES:
	Sample was not subjected to Armor Drop Test. Sample was not subjected to Armor Submersion.

This report pertains only to the samples tested and must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.