



September 11, 2015

RMA Armament, Inc.
 1479 Gillespie St. Suite 303
 Rock Island, IL 61201
 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 (abbrev) (mod) 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 positioned 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 Samples			Ballistic Threat				Results			
OBL No.:	Serial No.:	Weight (lbs.)	Projectile	Shots	Velocity (fps)		Penetrations	BFD (mm)		Pass/Fail
					Min.	Max.		Min.	Max.	
10782	000046	6.94	.30 cal M2AP	6	2857	2880	0	28.72	35.87	Pass

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,

Brandon Bertsch
 Oregon Ballistic Laboratories



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



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
OBL ID#: 10782
Test Date: 9/10/2015
Purchase Order:

TEST SAMPLE

Model No.: RMA 1189
Serial No.: 000046
Lot No.: H00055131
Plies: N/A
Description: Level IV SA Plate

Size: 10 x 12
Weight (lb.): 6.94
Thickness:
Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft.
Screen Dist. Vel. 1 (ft.): 5
Screen Dist. Vel. 2 (ft.): 5
Screen 4 to target (ft): N/A
Primary Vel. Location: 8.25 ft. from target
Striking Velocity: No
Target to Witness: N/A
Witness Panel: N/A
Backing Material: 5.5" clay block w/ 3/4" plywood backing
Obliquity: 0 Degrees
Barrel: .308/1:9/24"

Range #: 2
Temperature: 69.6 °F
Bar. Pressure: 30.01 in. Hg
Rel. Humidity: 56.0 %
Sample Temp. Amb. °F
Recorder: Brandon Bertsch
Gunner: Joe Simon

Pre Test:
Clay Drops (mm): 19.01 19.57 18.82 17.75 17.41
Drop Avg (mm): 18.51
Clay Temp °F: 95.0
Clay Box #: 4
Post Test:
Clay Drops (mm): 20.12 18.99 20.99 18.62 18.25
Drop Avg (mm): 19.39
Clay Temp °F: 94.8

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: N133

STANDARDS / PROCEDURES

NIJ-STD-0101.06 Level IV (abbrev) (mod)

Required Velocity: 2880 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	BFD	NOTES
1	161.9	46.0	1736	1738	2880	2877	2879	P	0°	28.72	
2	161.7	46.0	1736	1737	2880	2879	2880	P	0°	35.87	
3	162.4	46.0	1750	1750	2857	2857	2857	P	0°		
4	162.1	46.0	1741	1742	2872	2870	2871	P	0°		
5	162.4	46.0	1736	1736	2880	2880	2880	P	0°		
6	162.3	46.0	1741	1743	2872	2869	2871	P	0°		

REMARKS:

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

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was subjected to Armor Drop Test per section 6.2.3.4
Sample was subjected to Armor Submersion per section 7.8.2



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