



April 18, 2014

RMA Armament, Inc.  
PO Box 531  
Grand Ledge, MI 48837  
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) 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			
S/N	Weight (lbs)	Projectile	Shots	Velocity (fps)		Penetrations	BFD (mm)		Pass/Fail
				Min.	Max.		Min.	Max.	
753	3.00	M80 Ball, Steel	6	2787	2801	0	33.93	37.73	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 - V<sub>0</sub>**

Customer: RMA Armament  
OBL ID#: 8332  
Test Date: 4/18/2014  
Purchase Order:

**TEST SAMPLE**

Sample No.: 753  
Heat No.: N/A  
Lot No.: N/A  
Plies: N/A  
Description: Level III hard plate

Size (in.): 10 x 12  
Weight (lb.): 3.00  
Thickness:  
Avg. Thk. (in):

**RANGE SET-UP**

Range to Target: 50 ft. Range #: 2  
Screen Dist. Vel. 1 (ft.): 5 Temperature: 67.8 °F  
Screen Dist. Vel. 2 (ft.): 5 Bar. Pressure: 30.14 in. Hg  
Screen 4 to target (ft): N/A Rel. Humidity: 45.4 %  
Primary Vel. Location: 8.25 ft. from target Sample Temp. Amb. °F  
Striking Velocity: No Recorder: Brandon Bertsch  
Target to Witness: N/A Gunner: Justin Greeley  
Witness Panel: N/A  
Backing Material: 5.5" clay block w/ 3/4" plywood backing  
Obliquity: 0 Degrees  
Barrel: .308/1:9/24"

Pre Test:  
Clay Drops (mm): 18.59 18.68 19.30 19.38 17.94  
Drop Avg (mm): 18.78  
Clay Temp °F: 95.7  
Clay Box #: 1  
Post Test:  
Clay Drops (mm): 16.39 16.99 19.01 19.27 17.70  
Drop Avg (mm): 17.87  
Clay Temp °F: 94.6

**AMMUNITION**

Projectile: 7.62x51mm 147gr. M80 Ball Steel Jacket

Powder: N133

**STANDARDS / PROCEDURES**

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

Required Velocity: 2780 fps ± 30 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 <sup>-6</sup> )	TIME 2 μs (10 <sup>-6</sup> )	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	BFD	NOTES
1	147.0	41.3	1793	1793	2789	2789	2789	P	0°	33.93	
2	148.4	41.3	1794	1795	2787	2786	2787	P	0°	37.73	
3	147.5	41.3	1789	1788	2795	2796	2796	P	0°		
4	147.5	41.3	1787	1787	2798	2798	2798	P	0°		
5	147.6	41.3	1786	1787	2800	2798	2799	P	0°		
6	147.7	41.3	1785	1785	2801	2801	2801	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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