



March 5, 2018

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 III Special Threat (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 Sample			Ballistic Threat				Results			
OBL No.:	Model No.:	Weight (lbs.)	Projectile	Shots	Velocity (fps)		Penetrations	BFD (mm)		Pass/Fail
					Min.	Max.		Min.	Max.	
18859	1003	2.45	M193	3	3049	3086	0	24.60	25.25	<u>PASS</u>
			M67	1	2398		0	28.83		<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,

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#: 18859
Test Date: 3/6/2018
Purchase Order:

TEST SAMPLE

Serial No.: 00055
Model No.: 1003
Lot No.: 232011
Plies: N/A
Description: Level IIIa+ HA Plate

Size: 10 x 12
Weight (lb.): 2.45
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: 5.56mm NATO/1:7/30"

Range #: 2
Temperature: 68.3 °F
Bar. Pressure: 29.70 in. Hg
Rel. Humidity: 36.8 %
Sample Temp. Amb. °F
Recorder: Grant Zitek
Gunner: Jesse Crisanti

Pre Test:
Clay Drops (mm): 18.87 19.21 20.15 18.14 19.32
Drop Avg (mm): 19.14
Clay Temp °F: 97.3
Clay Box #: 3
Post Test:
Clay Drops (mm): 16.72 17.01 17.75 17.70 16.72
Drop Avg (mm): 17.18
Clay Temp °F: 94.4

AMMUNITION

Projectile: 5.56mm M193 Ball

Powder: IMR 4227

STANDARDS / PROCEDURES

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

Required Velocity: 3050 fps ± 50 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	54.6	18.8	1620	1620	3086	3086	3086	P	0°	24.60	
2	54.2	18.8	1623	1623	3081	3081	3081	P	0°	25.13	
3	54.7	18.8	1640	1640	3049	3049	3049	P	0°	25.25	

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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TEST SAMPLE	
Serial No.:	00055
Model No.:	1003
Lot No.:	232011
Plies:	N/A
Description:	Level IIIa+ HA Plate
Size:	10 x 12
Weight (lb.):	2.45
Thickness:	
Avg. Thk. (in):	

RANGE SET-UP									
Range to Target:	50 ft.	Range #:	2	Pre Test:					
Screen Dist. Vel. 1 (ft.):	5	Temperature:	68.3 °F	Clay Drops (mm):	18.87	19.21	20.15	18.14	19.32
Screen Dist. Vel. 2 (ft.):	5	Bar. Pressure:	29.70 in. Hg	Drop Avg (mm):	19.14				
Screen 4 to target (ft):	N/A	Rel. Humidity:	36.8 %	Clay Temp °F:	97.3				
Primary Vel. Location:	8.25 ft. from target	Sample Temp.	Amb. °F	Clay Box #:	3				
Striking Velocity:	No	Recorder:	Grant Zitek	Post Test:					
Target to Witness:	N/A	Gunner:	Jesse Crisanti	Clay Drops (mm):	16.72	17.01	17.75	17.70	16.72
Witness Panel:	N/A			Drop Avg (mm):	17.18				
Backing Material:	5.5" clay block w/ 3/4" plywood backing			Clay Temp °F:	94.4				
Obliquity:	0 Degrees								
Barrel:	7.62x39mm/1:9.45/24"								

AMMUNITION	
Projectile:	7.62x39mm M67 Lead Core
Powder:	IMR 4227

STANDARDS / PROCEDURES	
NIJ-STD-0101.06 Level III Special Threat (abbrev) (mod)	Required Velocity: 2380 fps ± 50 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	123.2	22.9	2083	2087	2400	2396	2398	P	0°	28.83	

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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