



June 24, 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 two samples.

The samples were tested in accordance with NIJ-STD-0108.01 Level IIIA in an indoor range with the muzzle of the test barrel mounted 16.5 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 .020" 2024-T3 aluminum witness plate mounted 6 inches 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	Pass/Fail
				Min.	Max.		
—	1.47	9mm FMJ	5	1391	1411	0	Pass
—	1.47	.44 Mag SWCGC	5	1428	1484	0	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
OBL ID#: 8490
Test Date: 6/24/2014
Purchase Order:

TEST SAMPLE

Model No.: N/A
Serial No.: N/A
Lot No.: N/A
Plies: N/A
Description: AR500 steel plate

Size (in.): 10 x 12
Weight (lb.): 1.47
Thickness:
Avg. Thk. (in):

RANGE SET-UP

Range to Target: 16.5 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: 6 in.
Witness Panel: 0.020" 2024-T3 Alum.
Backing Material: N/A
Obliquity: 0 Degrees
Barrel: 9mm Luger/1:10/4.5"

Range #: 2
Temperature: 70.0 °F
Bar. Pressure: 30.13 in. Hg
Rel. Humidity: 48.8 %
Sample Temp. Amb. °F
Recorder: Brandon Bertsch
Gunner: Justin Greeley

Pre Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:
Clay Box #:
Post Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:

AMMUNITION

Projectile: 9mm 124gr. FMJ Lot #23558

Powder: Accurate No. 2

STANDARDS / PROCEDURES

NIJ-STD-0108.01 Level IIIA

Required Velocity: 1400 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	BFD	NOTES
1	124.9	7.6	3566	3570	1402	1401	1402	P	0°		
2	125.0	7.6	3542	3548	1412	1409	1411	P	0°		
3	125.2	7.6	3576	3581	1398	1396	1397	P	0°		
4	124.4	7.6	3495	3500	1431	1429	1430	P	0°		
5	125.0	7.6	3593	3597	1392	1390	1391	P	0°		

REMARKS:

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

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:



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BALLISTIC RESISTANCE TEST - V₀

Customer: RMA
 OBL ID#: 8489
 Test Date: 6/24/2014
 Purchase Order:

TEST SAMPLE

Model No.: N/A
 Serial No.: N/A
 Lot No.: N/A
 Plies: N/A
 Description: AR500 steel plate

Size (in.): 10 x 12
 Weight (lb.): 1.47
 Thickness:
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 16.5 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: 6 in.
 Witness Panel: 0.020" 2024-T3 Alum.
 Backing Material: N/A
 Obliquity: 0 Degrees
 Barrel: 9mm Luger/1:10/4.5"

Range #: 2
 Temperature: 70.0 °F
 Bar. Pressure: 30.13 in. Hg
 Rel. Humidity: 48.8 %
 Sample Temp. Amb. °F
 Recorder: Brandon Bertsch
 Gunner: Justin Greeley

Pre Test:
 Clay Drops (mm):
 Drop Avg (mm):
 Clay Temp °F:
 Clay Box #:
 Post Test:
 Clay Drops (mm):
 Drop Avg (mm):
 Clay Temp °F:

AMMUNITION

Projectile: .44 Mag 240gr. SWCGC

Powder: Accurate No. 2

STANDARDS / PROCEDURES

NIJ-STD-0108.01 Level IIIA

Required Velocity: 1400 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	BFD	NOTES
1	247.4	12.7	3383	3376	1478	1481	1480	P	0°		
2	245.3	12.6	3368	3372	1485	1483	1484	P	0°		
3	247.7	12.3	3470	3474	1441	1439	1440	P	0°		
4	247.6	12.1	3499	3504	1429	1427	1428	P	0°		
5	247.0	12.1	3496	3500	1430	1429	1430	P	0°		

REMARKS:

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

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES: