

NIJ CTP BA Type IV Follow-up Inspection Test Report



NVLAP LAB CODE 200826-0

Test Laboratory Name: Oregon Ballistic Laboratories

Address: 2873 22nd Street SE
Salem, OR 97302

Report Identification Number: OBL_FIT_RMA_1155

Issue/ Revision Number: Initial Issue

Report Date: 03-Feb-22

Customer: Intertek
Address: 545 E. Algonquin Rd.
Arlington Heights, IL 60005

Test Order #: FIT-2021-12-08-T

Sample Information:

Applicant: RMA Armamnet, Inc.
Address: 22800 Dewey Rd, Centerville
IA 52544, USA

Manufacturer: RMA Armamnet, Inc.
Address: 22800 Dewey Rd, Centerville
IA 52544, USA

Model #: 1155
NIJ 0101.06 Threat Level: IV
Shot to Edge Distance (T1): 51 mm

Date Received: 19-Feb-21
Condition (as received): Undamaged
Sample Identification: (1) 20220060005
Sample Identification: (3) 20220060007

(2) 20220060006
(4) 20220060008

FIT Phase 1 Test Summary:

Test Date Start: 02-Feb-22
Test Method/Standard: NIJ 0101.06
NIJ 0101.06 Threat Level: IV
Velocity Units: ft/s

Finish: 02-Feb-22

- I. All samples were submerged in accordance with Clause 7.8.2 for "New" armor.
- II. All samples were subjected to one "fair hits" per panel in accordance with Section 7.8.
- Threat Bullet: .30 Caliber M2 AP (see Appendix A for additional information)
Threat Velocity: 2880 ft/s

III. Test Results indicate: **ARMOR COMPLIES WITH CTP FIT TEST REQUIREMENTS**

Authorized Signatory: Darius Nuttbrock
Function/Position: Ballistic Test Director

Signature:

Date: 2/3/2022

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Range Information:

Distance between trigger screen pair #1: 5 ft
Distance between trigger screen pair #2: 4 ft
Chronographs will report: time of flight μ s

Test Equipment:

Item	ID Number	Description	Calibration Dates		Acceptable
			Last	Next Due	
1.	A19224913	RCBS Powder Scale	19-Nov-21	19-Feb-22	YES
2.	405-1216-0029	Omega Temperature and Humidity	19-Feb-21	19-Feb-22	YES
3.	T-4	Craftsman 12' Measuring Tape	19-Nov-21	19-Feb-22	YES
4.	OBL-E-0080	HP Frequency Counters	05-Feb-21	05-Feb-22	YES
5.	OBL-E-097	HP Frequency Counters	05-Feb-21	05-Feb-22	YES
6.	OBL-103	ThermoWorks Temperature Probe	19-Nov-21	19-Feb-22	YES
7.	OBL-017	Webber Gage Blocks	19-Nov-21	19-Feb-22	YES
8.	OBL-320	.308 M2AP 30" Barrel 1:9	N/A	N/A	YES
9.					
10.					
11.					
12.					
13.					
14.					
15.					

Notes (including deviations from, additions to, or exclusions from the test method):

Blank area for notes, consisting of multiple horizontal lines.

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FIT Type IV Test Data:

I. Sample 1 Threat: .30 Caliber M2 AP Sample ID: 20220060005

A. Armor Submersion (7.8.2 for "New" armor).

			water temperature	Acceptable	
			°F	67	YES
		Start	End	Total	Acceptable
submersion time (hh:mm)		10:10	10:40	0:30	YES
drying time (hh:mm)		10:40	10:50	0:10	YES

B. Backing Material Consistency Validation (4.2.5.6)

Block ID: 4
 Time: 10:39
 Temperature: 99 °F

	mm	1	2	3	4	5	Acceptable
Indentation Depth:		19.45	20.42	20.13	20.38	19.93	YES
					Average		Acceptable
	mm				20.062		YES

C. Perforation Test (7.8)

		Start	Stop		Acceptable
Ambient Temp:		70.7	70.4	°F	YES
Rel. Humidity:		33.7	34	%	YES
Time:		10:50	11:05		YES

Sample Identification	Angle	Screen 1 µs	Velocity 1 ft/s	Screen 2 µs	Velocity 2 ft/s	Acceptable (deviation)
20220060005	0°	1740	2873.56	1390	2877.70	YES
20220060006	0°	1729	2891.84	1380	2898.55	YES
20220060007	0°	1731	2888.50	1381	2896.45	YES
20220060008	0°	1727	2895.19	1378	2902.76	YES

Sample Identification	Mean Velocity ft/s	Velocity Fair	Fair Shot/Hit (Location/Velocity)	Perforate	Acceptable
20220060005	2875.63	YES	YES	NO	YES
20220060006	2895.20	YES	YES	NO	YES
20220060007	2892.48	YES	YES	NO	YES
20220060008	2898.98	YES	YES	NO	YES

D. Backing Material Consistency Validation (4.2.5.6)

Block ID: 4
 Time: 11:08
 Temperature: 98.6 °F

mm	1	2	3	4	5	Acceptable	
Indentation Depth:	18.91	21.43	20.3	19.67	19	YES	
					Average	Acceptable	
					mm	19.862	YES

V. Additional Backing Material Consistency Validations (4.2.5.6)

A. Performed: Not Used

Block ID:
 Time:
 Temperature: °F

mm	1	2	3	4	5	Acceptable
Indentation Depth:						N/A
					Average	Acceptable
					mm	N/A

B. Performed: Not Used

Block ID:
 Time:
 Temperature: °F

mm	1	2	3	4	5	Acceptable
Indentation Depth:						N/A
					Average	Acceptable
					mm	N/A

C. Performed: Not Used

Block ID:
 Time:
 Temperature: °F

mm	1	2	3	4	5	Acceptable
Indentation Depth:						N/A
					Average	Acceptable
					mm	N/A