

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: 08-Jan-20

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

Test Order #: FIT-2018-07-03

Sample Information:

Applicant: RMA Armament, Inc
Address: 22800 Dewey Rd
Centerville IA 52544

Manufacturer: RMA Armament, Inc
Address: 22800 Dewey
Centerville IS 52544

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

Date Received: 03-Jan-20
Condition (as received): Undamaged
Sample Identification: (1) 20193470252
Sample Identification: (3) 20193470261

(2) 20193470263
(4) 20193470273

FIT Phase 1 Test Summary:

Test Date Start: 08-Jan-20
Test Method/Standard: NIJ 0101.06
NIJ 0101.06 Threat Level: IV
Velocity Units: ft/s

Finish: 08-Jan-20

- 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: Brandon Bertsch
Function/Position: Genreal Manager

Signature:

Date: 1/8/2020

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Range Information:

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

Test Equipment:

Item	ID Number	Description	Calibration Dates		Acceptable
			Last	Next Due	
1.	OBL-004	RCBS Powder Scale	20-Nov-19	20-Feb-20	YES
2.	OBL-E-001	Omega Temperature and Humidity	07-Oct-19	07-Oct-20	YES
3.	OBL-024	Stanly 12' Measuring Tape	08-Nov-19	08-Feb-20	YES
4.	OBL-030	HP Frequency Counters	08-Jul-19	08-Jul-20	YES
5.	OBL-040	HP Frequency Counters	08-Jul-19	08-Jul-20	YES
6.	OBL-025	ThermoWorks Temperature Probe	04-Dec-19	04-Feb-20	YES
7.	OBL-017	Webber Gage Blocks	20-Nov-19	20-Feb-20	YES
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

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

Empty lines for notes.

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FIT Type IV Test Data:

I. Sample 1 Threat: .30 Caliber M2 AP Sample ID: 20193470252

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

			water temperature	Acceptable	
			°F	67	YES
		Start	End	Total	Acceptable
submersion time (hh:mm)		9:30	10:00	0:30	YES
drying time (hh:mm)		10:00	10:10	0:10	YES

B. Backing Material Consistency Validation (4.2.5.6)

Block ID: 2
 Time: 9:50
 Temperature: 96.2 °F

	mm	1	2	3	4	5	Acceptable
Indentation Depth:		20.37	20.07	20.79	20.14	20.88	YES
					Average		Acceptable
	mm				20.45		YES

C. Perforation Test (7.8)

		Start	Stop		Acceptable
Ambient Temp:		69.9	69.8	°F	YES
Rel. Humidity:		46.8	47	%	YES
Time:		10:12	10:16		YES

Sample Identification	Angle	Screen 1 µs	Velocity 1 ft/s	Screen 2 µs	Velocity 2 ft/s	Acceptable (deviation)
20193470252	0°	1747	2862.05	1750	2857.14	YES
20193470263	0°	1746	2863.69	1746	2863.69	YES
20193470261	0°	1737	2878.53	1737	2878.53	YES
20193470273	0°	1751	2855.51	1751	2855.51	YES

Sample Identification	Mean Velocity ft/s	Velocity Fair	Fair Shot/Hit (Location/Velocity)	Perforate	Acceptable
20193470252	2859.60	YES	YES	NO	YES
20193470263	2863.69	YES	YES	NO	YES
20193470261	2878.53	YES	YES	NO	YES
20193470273	2855.51	YES	YES	NO	YES

D. Backing Material Consistency Validation (4.2.5.6)

Block ID: 2
 Time: 10:53
 Temperature: 95.5 °F

mm	1	2	3	4	5	Acceptable	
Indentation Depth:	19.61	20.84	19.07	20.11	18.14	YES	
	Average					Acceptable	
	mm					19.554	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