National Institute of Justice (NIJ)

Approved Test Laboratory For Personal Body Armor

Expiration Date:

April 30, 2022

7447 W. 33rd St. N. Wichita, KS 67205 U.S.A. Phone (316) 832-1600 Fax (316) 832-1602

National Technical Systems

Email ustl@nts.com

www.nts.com/locations/wichita



NVLAP LAB CODE: 200818-0 Approved Signatory: Jake Crawford

HARD ARMOR STAND-ALONE PLATE:

Date Received: 9/22/2020

UPS Via:

Returned Via: FedEx

Test Conditions

Temperature:

Clay Block No.:

3-Drop Average:

Clay Temp.:

Humidity:

P-BFS TEST

Record No.: RMA20003-1 Test Date: 9/24/2020

Customer: RMA Armament, Inc.

Range 3

Muzzle to Screen 1: 14.30 ft. Screen 1 - 4: 5.00 ft. Screen 4 - Target: 5.70 ft. Midpoint to Target: 8.20 ft.

Test Barrel Length:

Barrel Length (M80): 26 in. 20 in. Barrel Length (MSC): 26 in.

Barrel Length (M193):

Test Standard:

Modified / Abbreviated NIJ Standard 0101.07 Draft (February 14, 2020)

IAW Section 12. Hard Armor: Ballistic Test Requirements and Procedures

Threat Level: NIJ RF1

Clay Block Size: 24" x 24" x 5.5"

Conditioning: Wet - Water Submersion

67.5

52

15

98 2

23.76

٥F

%

mm (25mm +/- 3mm)

Sample Tested Description			Shot / Projectile Description					Chronograph	
Manufacturer:	RMA Armament, Inc.	Shot	Shot	Degree	Caliber	Bullet	TIME	VELOCITY	Perforation
Model No.:	F-SAPI	No.	Location	Obliquity		Weight (gr.) / Type	sx-5	ft/s	BFD (mm)
Serial No.:	TEST PLATE								
Lot No.:	00001	1	Top Center	0°	7.62mm NATO	147 / FMJ (M80)	180.1	2776	32.52
DoM:	09/18/20								
Plate Curve:	Multi-curved	i de la compania del compania de la compania del compania de la compania del compania de la compania de la compania de la compania del compania de la compania de la compania de la compania de la compania del compania					with an over 20 contribution and a chief a local		
Plate Cut:	Shooter's Cut								
Size:	9.75" x 12"	2	Bottom Left	0°	7.62x39mm	123 / MSC	209.8	2383	19.37
Thickness:	1.02"								
Weight (lbs.):	4.614								
Threat Level:	(NIJ 0108.01): III			2.2					
		3	Bottom Right	0°	5.56x45mm	56 / M193	149.0	3356	20.42
								_	

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Test Remarks/Notes:

Plate tested as a stand alone plate

•Plate tested non-planar (with clay build-up/mound)

Test Round Description (IAW NIJ Threat Levels and Ammunition Table 2._January 2020)

7.62x51mm M80 Ball (NATO FMJ Steel Jacket Spire PT BT_U.S. Military Supply / NATO Specifications) Shot 1:

Test Velocity: 2780 +/- 30 ft/s

Shot 2: 7.62x39mm (Chinese Type 56) 123 gr. MSC (Steel Jacket Mild Steel Core PT BT IAW Figure 1a, b & c)

Test Velocity: 2380 +/- 30 ft/s

Shot 3: 5.56mm 56 +0 / -2 gr. (54-56 gr.) M193 BT (U.S. Military Supply / NATO Specifications)

Test Velocity: 3250 +/- 30 ft/s

Range Tech(s): Diefenderfer

Test Requireme	ents (IAW Section 12.3 Hard Armor P-BFD Requirements):	Shot Pattern:				
•Shot Pattern:	3-Shots per plate (Per Customer Request IAW Figure 7.)	Figure 7. NIJ RF1, NIJ RF2, and NIJ RF3:				
•Shot-to-Edge:	(Shots 1-3): 2.0" - 2.75"	Shot placement for 6 shots per test item				
Shot-to-Shot:	2.0" (51mm) Minimum	Shots 1, 2, 3, and 4				
·Submersion:	YES, IAW ASTM E3112/E3112M-19, Section 9.7 (Submersion in Plain Water)	within shaded band				
•Drop Test:	YES, IAW ASTM E3078/E3078M-19, Section 14 (Impact Durability Procedure)					
•BFD:	BFD measured for Shot Nos. 1-3					
•PASS / FAIL:	BFD ≤ 44.0mm (Shot Nos. 1-3); No Perforations (Shot Nos. 1-3)	Shots 5 and 6 within cross-hatched area				
		cross-natched area				
Shot Spacing /	Shot Locations (described from the shooter's perspective):					
Shot No. 1:	Top Center 2.50" from Top Edge and Centered					
Shot No. 2:	Bottom Left 2.50" from Bottom and Left Edges					
Shot No. 3:	Bottom Right 2.50" from Bottom and Right Edges					
Project Manage		2 in 2.75 in (70 mm)				
Range Tech(s)	Diefenderfer	(31 min) (70 min)				

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www.nts.com/locations/wichita April 30, 2022 HARD ARMOR STAND-ALONE PLATE:

9/10/2020

FedEx Returned Via: FedEx

Record No.: RMA20002-2 P-BFS TEST Test Date: 9/16/2020

RMA Armament, Inc. Customer:

Test Conditions

Temperature: 68.9 °F Humidity: 55 %

Clay Block No.: 15 Clay Block Size: 24" x 24" x 5.5" Clay Temp.: 99.7 ٥F

26.55 3-Drop Average: mm (25mm +/- 3mm)

Test Standard: Modified / Abbreviated NIJ Standard 0101.07 Draft (February 14, 2020)

IAW Section 12. Hard Armor: Ballistic Test Requirements and Procedures

Threat Level: NIJ RF2

Conditioning Wet - Water Submersion

NVLAP LAB CODE: 200818-0
Approved Signatory: Jake Crawford

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Range 3 14.30 ft. Muzzle to Screen 1:

Midpoint to Target: Test Barrel Length:

Screen 1 - 4: Screen 4 - Target:

Barrel Length (M855): 26 in. Barrel Length (M855A1): 26 in

(51 mm)

5.00 ft.

5.70 ft.

8.20 ft.

Sample Tested Description			Shot / Projectile Description					ograph	Test Results
Manufacturer:	RMA Armament, Inc.	Shot	Shot	Degree	Caliber	Bullet	TIME	VELOCITY	Perforation
Model No.:	FSAPI-M	No.	Location	Obliquity		Weight (gr.) / Type	sx-5	ft/s	BFD (mm)
Serial No.:	TEST SAMPLE								
Lot No.:	0001	1	Top Left	0°	5.56x45mm	61.8 / M855	161.5	3096	24.97
DoM:	09/08/20								
Plate Curve:	Multi-curved	Per Selata Salata Salata Salata Salata	cyclin teat comment for an						
Plate Cut:	Shooter's Cut								
Size:	9" x 11"	2	Bottom Right	0°	5.56x45mm	62 / M855 A1	160.9	3108	23.83
Thickness (in.):	1.092								
Weight (lbs.):	4.954								
Threat Level:	(NIJ 0108.01): III								
								-	

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Test Remarks/Notes:

·Plate tested as a stand alone plate

Plate tested non-planar (with clay build-up/mound)

Test Round Description (IAW NIJ Threat Levels and Ammunition Table 2._January 2020)

Shot 1: 5.56mm 61.8 +/- 1.5 gr. (60.3 - 63.3 gr.) M855 BT (U.S. Military Supply / NATO Specifications)

3115 +/- 30 ft/s Test Velocity:

Shot 2: 5.56x45mm, 62 gr. FMJ (M855 A1) Enhanced Penetration Round (EPR)

Test Velocity: 3115 +/- 30 ft/s

Range Tech(s): Montgomery

Test Requireme	ents (IAW Section 12.3 Hard Armor P-BFD Requirements):	Shot Pattern:
•Shot Pattern:	2-Shots per plate (Per Customer Request IAW Figure 7.)	Figure 7. NIJ RF1, NIJ RF2, and NIJ RF3:
•Shot-to-Edge:	(Shots 1-2): 2.0" - 2.75"	Shot placement for 6 shots per test item
•Shot-to-Shot:	2.0" (51mm) Minimum	Shots 1, 2, 3, and 4
Submersion:	YES, IAW ASTM E3112/E3112M-19, Section 9.7 (Submersion in Plain Water)	within shaded band
•Drop Test:	YES, IAW ASTM E3078/E3078M-19, Section 14 (Impact Durability Procedure)	annununununun /
•BFD:	BFD measured for Shot Nos. 1-2	
•PASS / FAIL:	BFD ≤ 44.0mm (Shot Nos. 1-2); No Perforations (Shot Nos. 1-2)	Shots 5 and 6 within cross-hatched area
Shot Spacing /	Shot Locations (described from the shooter's perspective):	
Shot No. 1:	Top Left 2.50" from Top and Top Left "/" Edges	
Shot No. 2:	Bottom Right 2.50" from Bottom and Right Edges	
		sunnunnunnu.
Project Manager	: Woods	2 in 2.75 in (51 mm) (70 mm)