

National Institute of Justice (NIJ)

Approved Test Laboratory
For Personal Body Armor

Expiration Date:

April 30, 2020

National Technical Systems

7447 W. 33rd St. N.

Wichita, KS 67205 U.S.A.

Phone (316) 832-1600 Fax (316) 832-1602

Email ustl@nts.com

www.nts.com/locations/wichita



NVLAP LAB CODE: 200818-0

Approved Signatory: Jake Crawford

FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 10/11/18
Via: Hand Carry
Returned Via: Hand Carry

Record No.: RMA18001-1
Test Date: 10/11/18
Customer: RMA Armament

Test Conditions

Temperature: 73.7 °F
Humidity: 38 %
Clay Block No.: 9
Clay Temp.: 99.1 °F
Drop Average: 17.62 mm
Test Standard: Modified / Abbreviated NIJ 0101.07, Latest Draft Version
Per Customer Request
Threat Level: RF2
Condition: New / Wet

Range 4

Muzzle to Screen 1: 39.30 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 26 in.
Clay Block: 5.5 in.

Sample Tested Description		Shot / Projectile Description					Chronograph		Test Results	
Manufacturer:	RMA Armament	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME	VELOCITY	Perforation	
							sx-5	ft/s	BFS (mm)	
Model No.:	1092	1	1	0°	7.62mm NATO	147 / FMJ (M80)	176.8	2828	37.57	
Serial No.:	0001	2	2	0°	7.62mm NATO	147 / FMJ (M80)	180.0	2778	38.08	
Lot No.:	TEST LOT 1	3	3	0°	7.62mm NATO	147 / FMJ (M80)	178.0	2809	No Perforation	
Size:	9.5" x 12.5"									
Style:	Shooter's Cut									
Weight (lbs.):	4.49									
Threat Level:	N/A									

This test report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST, NIJ or any agency of the Federal Government. This report contains data that are not covered by the NVLAP accreditation. This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the ballistic performance of the listed sample. This test report shall not be reproduced except in full without written approval of National Technical Systems.

Test Remarks/Notes:

- Plate tested as stand alone model.
- Customer requested plate durability drops

Test Round Description:

7.62mm NATO, 147 gr. (9.6g) FMJ (U.S. Military M80)
Test Velocity: 2780 +/- 30 ft/s

Sample Description:

- Customer Proprietary

Project Manager: Elston

Range Tech(s): Nguyen

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FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 10/11/18
Via: Hand Carry
Returned Via: Hand Carry

Record No.: RMA18001-2
Test Date: 10/11/18
Customer: RMA Armament

Test Conditions

Temperature: 73.7 °F
Humidity: 38 %
Clay Block No.: 9
Clay Temp.: 99.1 °F
Drop Average: 17.62 mm
Test Standard: Modified / Abbreviated NIJ 0101.07, Latest Draft Version
Per Customer Request
Threat Level: RF2
Condition: New / Wet

Range 4

Muzzle to Screen 1: 39.30 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 20 in.
Clay Block: 5.5 in.

Sample Tested Description		Shot / Projectile Description					Chronograph		Test Results	
Manufacturer:	RMA Armament	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation	
Model No.:	1092	1	1	0°	7.62x39mm	123 / MSC	209.7	2384	BFS (mm)	
Serial No.:	0002	2	2	0°	7.62x39mm	123 / MSC	211.2	2367	24.21	
Lot No.:	TEST LOT 1	3	3	0°	7.62x39mm	123 / MSC	208.9	2393	22.07	
Size:	9.5" x 12.5"									No Perforation
Style:	Shooter's Cut									
Weight (lbs.):	4.50									
Threat Level:	N/A									

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Test Remarks/Notes:

- Plate tested as stand alone model.
- Customer requested plate durability drops

Test Round Description:

7.62x39mm, 123 grain MSC
Test Velocity: 2380 +/- 30 ft/s

Sample Description:

- Customer Proprietary

Project Manager: Elston

Range Tech(s): Nguyen

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FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 10/11/18
Via: Hand Carry
Returned Via: Hand Carry

Record No.: RMA18001-3
Test Date: 10/11/18
Customer: RMA Armament

Test Conditions

Temperature: 73.7 °F
Humidity: 38 %
Clay Block No.: 9
Clay Temp.: 99.1 °F
Drop Average: 17.62 mm
Test Standard: Modified / Abbreviated NIJ 0101.07, Latest Draft Version
Per Customer Request
Threat Level: RF2
Condition: New / Wet

Range 4

Muzzle to Screen 1: 39.30 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 26 in.
Clay Block: 5.5 in.

Sample Tested Description		Shot / Projectile Description				Chronograph		Test Results	
Manufacturer:	RMA Armament	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation
Model No.:	1092	1	1	0°	5.56x45mm	62 / M855	160.9	3108	BFS (mm)
Serial No.:	0003	2	2	0°	5.56x45mm	62 / M855	160.8	3109	22.48
Lot No.:	TEST LOT 1	3	3	0°	5.56x45mm	62 / M855	161.1	3104	21.88
Size:	9.5" x 12.5"								No Perforation
Style:	Shooter's Cut								
Weight (lbs.):	4.50								
Threat Level:	N/A								

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Test Remarks/Notes:

- Plate tested as stand alone model.
- Customer requested plate durability drops

Test Round Description:

5.56x45mm, 62 gr. FMJ (M855)
Test Velocity: 3115 +/- 30 ft/s

Sample Description:

- Customer Proprietary

Project Manager: Elston
Range Tech(s): Nguyen

NATIONAL TECHNICAL SYSTEMS
BALLISTIC RESISTANCE TEST

Date Received: 10/11/18
Via: Hand Carry
Returned Via: Hand Carry

Record No.: RMA18001-4
Test Date: 10/11/18
Customer: RMA Armament

Test Conditions

Temperature: 74 °F
Humidity: 37 %
Test Spec.: Modified / Abbreviated NIJ 0108.01, September 1985
Test Reference: Sections 5.2.4.2 and Section 4.4, Table 1.
Shots Required: Per Customer Request
Test Type: Ballistic Shield
Threat Level: N/A

Range 4

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 2: 5.00 ft.
Screen 2 - Target: 39.30 ft.
Midpoint to Target: 41.80 ft.
Target to Witness: 0.50 ft.
Witness: 2024-T3 Alum.
Barrel Length: 26 in.

Sample Description		Test / Ammunition Description					Chronograph		Test Results
Shield Model No.	Shield Serial / Sample No.	Shot No.	Degree Obliquity	Shot Location	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY fps	Penetration No Penetration
Shield	N/A	1	0°	Shield Body	7.62x51mm	150 / FMJ	179.7	2782	No Penetration
Shield	N/A	2	0°	Shield Body	7.62x51mm	150 / FMJ	178.7	2798	No Penetration
Shield	N/A	3	0°	Shield Body	7.62x51mm	150 / FMJ	179.5	2786	No Penetration
Shield	N/A	4	0°	Handle Bolt	7.62x51mm	150 / FMJ	179.6	2784	No Penetration
Shield	N/A	*5	0°	Handle Bolt	7.62x51mm	150 / FMJ	177.8	2812	Penetration
Shield	N/A	6	0°	Shield Body	7.62x39mm	123 / FMJ (SJLC)	207.1	2414	No Penetration
Shield	N/A	7	0°	Shield Body	7.62x39mm	123 / FMJ (SJLC)	207.5	2410	No Penetration
Shield	N/A	8	0°	Shield Body	7.62x39mm	123 / FMJ (SJLC)	209.4	2388	No Penetration
Shield	N/A	9	0°	Shield Body	5.56x45mm	55 / M193	152.3	3283	No Penetration
Shield	N/A	10	0°	Shield Body	5.56x45mm	55 / M193	151.7	3296	No Penetration
Shield	N/A	11	0°	Shield Body	5.56x45mm	55 / M193	153.7	3253	No Penetration
Shield	N/A	12	0°	Shield Body	5.56x45mm	55 / M193	151.2	3307	No Penetration
Shield	N/A	13	0°	Shield Body	5.56x45mm	55 / M193	152.6	3277	No Penetration
Shield	N/A	14	0°	Shield Body	5.56x45mm	55 / M193	154.5	3236	No Penetration
Shield	N/A	15	0°	Shield Body	5.56x45mm	55 / M193	152.8	3272	No Penetration
Shield	N/A	16	0°	Shield Body	5.56x45mm	55 / M193	154.4	3238	No Penetration

This test was performed in accordance with the specification requirements and the results properly reflect the ballistic performance of the listed sample.

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REMARKS / NOTES:

- Sample secured using frame and clamps.
- Shield received and tested as an unfinished ballistic shield without viewport, handles, straps or any other design feature:
- *Excessive Velocity

Test Ammunition:

7.62x51mm, 150 gr. FMJ (M80)
NIJ 0108.01 Level III Velocity of 2750 +/- 50 fps

7.62x39mm, 123 gr. FMJ (Steel Jacket Lead Core)
Velocity of 2380 +/- 50 fps

5.56x45mm, 55 gr. FMJ (M193)
Velocity of 3250 +/- 50 fps

Sample Tested:

Manufacturer: RMA Armament
Model No.: Shield
Size (in.): 31 x 22
Sample No.: N/A
Thickness (in.): 0.840
Weight (lbs.): 14.42
Threat Level: N/A