

ELEMENT MATERIALS TECHNOLOGY WICHITA
RTP / BFD TEST

Date Received: December 6,
Via: 2024 FedEx
Returned Via: FedEx

Record No.: TEA24001-1
Test Date: December 11, 2024
Customer: Tactical Edge & Armor, LLC

Test Conditions
Temperature: 68.4 °F
Humidity: 60 %

Test Standard: Modified / Abbreviated NIJ Standard 0106.01 for Ballistic Helmets
December 1981
Test Ammunition: IAW NIJ Standard 0108.01, September 1985 (or relevant specified standard)
Threat Level: IIIA
Conditioning: Dry

Range 2
Muzzle to Screen 1: 5.70 ft
Screen 1 - 2: 5.00 ft
Screen 2 - Target: 5.70 ft
Midpoint to Target: 8.20 ft

Headform Size: 7 1/4
Witness Plate: 2024-T3 Aluminum
Barrel Length: 14.00 in

Sample Tested Description		Test / Ammunition Description					Chronograph		Test Results
Manufacturer:	Tactical Edge & Armor, LLC	Shot No.	Impact Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Penetration BFD (mm)
Model No.:	H2	1	Front				356.0	1404	No Penetration
Serial No.:	N/A	2	Back	0°	.44 Mag.	240 / LSWC GC	357.9	1397	No Penetration
Size:	N/A	3	Left				359.8	1390	No Penetration
Weight (lbs):	3.46	4	Right				354.7	1410	No Penetration
Protection Level:	IIIA								

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Notes:

Ammunition Description:
.44 Magnum 240 gr. Lead Semi-Wadcutter Gas Checked (LSWCGC)
Velocity: 1400 +/- 50 ft/s

Montgomery / Cisneros / Castillo

Element Materials Technology Wichita

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HARD ARMOR STAND-ALONE PLATE:

P-BFS TEST

Date Received: December 6, 2024
Via: FE
Returned Via: FE

Record No.: TEA24001-1
Test Date: December 6, 2024
Customer: Tactical Edge & Armor, LLC.

Test Conditions

Temperature: 71.1 °F
Humidity: 56 %

Clay Block No.: 7
Clay Block Size: 24" x 24" x 5.5"
Clay Temperature: 99.1 °F
Drop Average: 19.39 mm

Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: III

Conditioning: Ambient
Drop Test: No
Submersion: No

Range 3

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.
Barrel Length: 26 in.

Sample Description		Shot / Projectile Description				Chronograph		Test Results	
Manufacturer:	Tactical Edge & Armor, LLC	Shot	Shot	Degree	Caliber	Bullet	TIME	VELOCITY	Perforation
Model No.:	H2	No.	Location	Obliquity	Weight (gr.) / Type		sx-5	ft/s	BFS (mm)
Lot No.:	N/A	1	Top Left	0°	7.62mm NATO 147 / FMJ (M80)		181.2	2759	21.20
Serial No.:	N/A	2	Bottom Right	0°			180.5	2770	3.45
Size (in.):	11.75 x 10	3	Middle Left	0°			181.0	2762	21.13
Weight (lbs.):	8.618	4	Middle Right	0°			181.6	2753	19.25
		5	Top Right	0°			180.6	2769	8.50
		6	Bottom Left	0°			180.4	2772	13.78

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 Element Materials Technology Wichita.

Notes:

•Stand-Alone plate tested non-planar (with clay mound / build-up)

Ammunition Description:

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

Sample Description:

•Customer Proprietary.

Project Manager: Nold
Range Tech(s): Montgomery