

**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.  
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NVLAP LAB CODE: 200818-0

Approved Signatory: Jake Crawford

**HARD ARMOR STAND-ALONE PLATE:**

Date Received: 11/15/19  
Received Via: USPS  
Returned Via: UPS

**P-BFS TEST**

Record No.: EWC19005-1  
Test Date: 11/17/19  
Customer: Tactical Edge & Armor, LLC.

**Test Conditions**

Temperature: 70 °F  
Humidity: 49 %  
Clay Block No.: 13  
Clay Block Size: 24" x 24" x 5.5"  
Clay Temp.: 99.8 °F  
Drop Average: 20.50 mm  
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008  
Threat Level: III  
Condition: New / Dry

**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.  
Target to Witness: 0 in.  
Barrel Length: 26 in.

Sample Tested Description		Shot / Ammunition Description				Chronograph		Test Results	
		Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)
Manufacturer:	Tactical Edge & Armor, LLC.	1	Top Left	0°	7.62mm NATO	147 / FMJ (M80)	180.2	2775	32.25
Model No.:	Test Plate #SP1	2	Bottom Right	0°			178.5	2801	31.68
Sample No.:	1	3	Top Right	0°			181.3	2758	No Perforation
Curve:	Single Curve	4	Middle Right	0°			179.6	2784	No Perforation
Cut:	Shooter's Cut	5	Middle Left	0°			178.6	2800	No Perforation
Type:	Stand-Alone	6	Bottom Left	0°			179.8	2781	No Perforation
Size:	10" x 12"								
Thickness:	0.501"								
Weight (lbs.):	6.953								
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 non-planar (with clay build-up/mound)

**Test Round Description:**

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

**Test Procedure / Requirements:**

Shot Pattern: 6-Shot evenly spaced die pattern IAW Section 7.8.1  
Shot-to-Edge: 2.0" minimum  
Shot-to-Shot: 2.0" minimum  
Submersion: No  
Drop Test: No  
BFS Required: Shot No. 1 & Shot No. 2  
PASS / FAIL: BFS ≤ 44.0mm (Shots 1-2); No Perforations (Shots 1-6)

**Sample Description:**

•Customer Proprietary

**Shot Locations (described from the shooter's perspective):**

Shot No. 1: Top Left 2.75" from top left "l" edge; 3.0" from top edge  
Shot No. 2: Bottom Right 3.0" from bottom and right edges  
Shot No. 3: Top Right 2.75" from top right "r" edge; 3.0" from top edge  
Shot No. 4: Middle Right 3.0" from right edge; 3.0" from Shot No. 2 & No. 3  
Shot No. 5: Middle Left 3.0" from left edge; 3.0" below Shot No. 1  
Shot No. 6: Bottom Left 3.0" from bottom and left edges; 3.0" below Shot No. 5

Project Manager: Nold

Range Tech(s):

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**HARD ARMOR STAND-ALONE PLATE:**

Date Received: 11/15/19  
Received Via: USPS  
Returned Via: UPS

**P-BFS TEST**

Record No.: TEA19005-2  
Test Date: 11/17/19  
Customer: Tactical Edge & Armor, LLC.

**Test Conditions**

Temperature: 70 °F  
Humidity: 49 %  
Clay Block No.: 13  
Clay Block Size: 24" x 24" x 5.5"  
Clay Temp.: 98.3 °F  
Drop Average: 19.94 mm  
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008  
Threat Level: III  
Condition: New / Dry

**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.  
Target to Witness: 0 in.  
Barrel Length: 26 in.

Sample Tested Description		Shot / Ammunition Description				Chronograph		Test Results	
Manufacturer:	Tactical Edge & Armor, LLC.	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation
Model No.:	Test Plate #SP2	1	Top Left	0°	7.62mm NATO	147 / FMJ (M80)	180.3	2773	33.02
Sample No.:	2	2	Bottom Right	0°			180.1	2776	31.50
Curve:	Single Curve	3	Top Right	0°			181.3	2758	No Perforation
Cut:	Shooter's Cut	4	Middle Right	0°			179.1	2792	No Perforation
Type:	Stand-Alone	5	Middle Left	0°			178.9	2795	No Perforation
Size:	10" x 12"	6	Bottom Left	0°			181.2	2759	No Perforation
Thickness:	0.729"								
Weight (lbs.):	6.922								
Threat Level:	N/A								

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Shot No. 4: Middle Right 3.0" from right edge; 3.0" from Shot No. 2 & No. 3  
Shot No. 5: Middle Left 3.0" from left edge; 3.0" below Shot No. 1  
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Range Tech(s):