

**National Institute of Justice (NIJ)**

Approved Test Laboratory  
For Personal Body Armor

Expiration Date:

April 30, 2018

**National Technical Systems**

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NVLAP LAB CODE: 200818-0

Approved Signatory: Jake Crawford

Date Received: 02/08/18  
Via: UPS  
Returned Via: UPS

**HEAD ARMOR STAND-ALONE PLATE:**

**P-BFS TEST**

Record No.: JGW18001-3  
Test Date: 02/09/18  
Customer: Jlangxi Great Wall Protect  
Equipment Industry Co., Ltd

**Test Conditions**

Temperature: 70 °F  
Humidity: 34 %  
Clay Block No.: 16  
Clay Temp.: 99.9 °F  
Drop Average: 19.14 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.  
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description					Chronograph		Test Results
Manufacturer:	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME s±6	VELOCITY Y ft/s	Perforation BFS (mm)
Manufacturer: Jlangxi Great Wall Protect Equipment Industry Co., Ltd	1	TL	0°	7.62mm NATO	147 / FMJ (M80)	178.1	2807	40.37
Model No.: Material PE	2	BR	0°	7.62mm NATO	147 / FMJ (M80)	181.1	2761	38.13
Sample No.: 1	3	TR	0°	7.62mm NATO	147 / FMJ (M80)	178.9	2795	No Perforation
Type: Stand-Alone	4	MR	0°	7.62mm NATO	147 / FMJ (M80)	179.4	2787	No Perforation
Style: Front Plate	5	ML	0°	7.62mm NATO	147 / FMJ (M80)	180.6	2769	No Perforation
Cut: Shooter's Cut	6	BL	0°	7.62mm NATO	147 / FMJ (M80)	179.6	2784	No Perforation
Shape: Single Curve								
Size: 300 x 250 x 20mm								
Thickness: 20mm								
Weight (kg): 1.47								
Threat Level: (NIJ 0101.04): III								

**Test Round Description:**

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

*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 it used 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 mound/build-up)

**Shot Spacing / Shot Location Requirements:**

Shot-to-Edge: 2.0" Minimum (Level III, III+ and IV Only)  
Shot-to-Shot: 2.0" Minimum  
BFS Requirement BFS  $\geq$  44.0mm (Shot No. 1 and No. 2 Only)  
\*\*\*Shot locations are described from shooter's perspective

**Shot Locations / Test Results:**

Shot No. 1 (TL): Top Left: 2.75" from left "r" edge; 3.0" from top edge  
Shot No. 2 (BR): Bottom Right: 3.0" from right and bottom edges  
Shot No. 3 (TR): Top Right: 2.75" from right "r" edge; 3.0" from top edge  
Shot No. 4 (MR): Middle Right: 3.0" from right edge; 3.0" from Shot No. 2 & 3  
Shot No. 5 (ML): Middle Left: 3.0" from left edge; 3.0" below Shot No. 1  
Shot No. 6 (BL): Bottom Left: 3.0" from left and bottom edges

**Sample Description:**

\*Customer Proprietary



*Matt Lutz*

Matt Lutz  
Division Manager

Project Manager: Nguyen  
Range Tech(s): Noid