

**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

**HARD ARMOR STAND-ALONE PLATE:**

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

**P-BFS TEST**

Record No.: JGW18001-4  
Test Date: 02/09/18  
Customer: Jiangxi Great Wall Protect  
Equipment Industry Co., Ltd

**Test Conditions**

Temperature: 70 °F  
Humidity: 34 %  
Clay Block No.: 16  
Clay Temp.: 99.1 °F  
Drop Average: 19.17 mm  
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008  
Threat Level: Special Threat  
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:	Jiangxi Great Wall Protect Equipment Industry Co., Ltd	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCIT Y ft/s	Perforation BFS (mm)
Model No.:	Material PE +SiC	1	TL	0°	5.56x45mm	62 / SS109	161.2	3102	40.76
Sample No.:	2	2	BR	0°	5.56x45mm	62 / SS109	159.8	3129	33.47
Type:	Stand-Alone	3	TR	0°	5.56x45mm	62 / SS109	158.2	3161	No Perforation
Style:	Front Plate	4	MR	0°	5.56x45mm	62 / SS109	159.8	3129	No Perforation
Cut:	Shooter's Cut	5	ML	0°	5.56x45mm	62 / SS109	158.6	3153	No Perforation
Shape:	Single Curve	6	BL	0°	5.56x45mm	62 / SS109	158.2	3161	No Perforation
Size:	300 x 250mm								
Thickness:	20mm								
Weight (kg):	1.71								
Threat Level:	NIJ III++ (M16 - SS109)								
		<b>Test Round Description:</b>							
		5.56x45mm, 62 gr. FMJ (M855)							
		Test Velocity: 3100 +/- 50 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 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 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 ≤ 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 "l" 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*

Project Manager: Nguyen  
Range Tech(s): Nold

Matt Lutz  
Division Manager