

**National Institute
of Justice (NIJ)**

Approved Test Laboratory
For Personal Body Armor

Expiration Date:

April 30, 2018

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

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)	Test Round Description: 5.56x45mm, 62 gr. FMJ (M855) Test Velocity: 3100 +/- 50 ft/s							

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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 $BFS \leq 44.0\text{mm}$ (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 "I" 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 "I" 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



Project Manager: Nguyen
Range Tech(s): Nold

Matt Lutz
Division Manager