

**National Institute  
of Justice (NIJ)**

Approved Test Laboratory  
For Personal Body Armor

Expiration Date:

April 30, 2020

**National Technical Systems**

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NVLAP LAB CODE: 200818-0

Approved Signatory: Jake Crawford

**HARD ARMOR STAND-ALONE PLATE:**

**P-BFS TEST**

Date Received: 10/01/19  
Received Via: USPS  
Returned Via: UPS

Record No.: EXT19001-3  
Test Date: 10/08/19  
Customer: Extant Armor Co.

**Test Conditions**

Temperature: 69.7 °F  
Humidity: 44 %  
Clay Block No.: 13  
Clay Block Size: 24" x 24" x 5.5"  
Clay Temp.: 99.3 °F  
Drop Average: 19.98 mm

**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.

Test Reference: OP0527710-1, Line 1  
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008  
Threat Level: IV  
Condition: New / Dry

**Test Barrel / Powder**

Barrel Length: 26 in.  
Test Barrel ID#: WC040885  
Powder: IMR 4064

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: Extant Armor Co. Model No.: SIC Line 1 Sample No.: 1 of 2 Curve: Single Curve Cut: Shooter's Cut Type: Stand-Alone Plate Size: 10" x 12" Thickness (in.): 0.914 Weight (lbs.): 5.248	1	Crown	0°	.30 Cal. (.30-06)	166 / M2AP	175.2	2854	41.42

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**Test Remarks/Notes:**

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

**Test Requirements:**

Submersion: NO, tested "Dry" IAW customer request  
Drop Test: NO, Mechanical Durability not required IAW customer request  
BFS: Shot No. 1 Only  
PASS / FAIL: BFS ≤ 44.0mm; No Perforations

**Test Round Description:**

.30 Cal. (.30-06) 166 gr. (10.8g) AP (U.S Military M2AP)  
Test Velocity: 2880 +/- 30 ft/s

**Shot Spacing / Test Requirements:**

•Shot Pattern: 1-Shot on Crown of Plate  
•Shot-to-Edge: 2.0" Minimum  
•Shot-to-Shot: 2.0" Minimum

**Sample Description:**

•Customer Proprietary

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

Shot No. 1: Crown of Plate 4.25" from left "/" and right "\" edges; 3.50" from top edge

Project Manager: Zerger  
Range Tech(s): Wilson Diefenderfer

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**HARD ARMOR STAND-ALONE PLATE:**

**P-BFS TEST**

Date Received: 10/01/19  
Received Via: USPS  
Returned Via: UPS

Record No.: EXT19001-4  
Test Date: 10/08/19  
Customer: Extant Armor Co.

**Test Conditions**

Temperature: 69.7 °F  
Humidity: 44 %  
Clay Block No.: 13  
Clay Block Size: 24" x 24" x 5.5"  
Clay Temp.: 99.3 °F  
Drop Average: 19.98 mm

**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.

Test Reference: OP0527710-1, Line 2  
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008  
Threat Level: IV  
Condition: New / Wet

**Test Barrel / Powder**

Barrel Length: 26 in.  
Test Barrel ID#: WC040885  
Powder: IMR 4064

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: Extant Armor Co. Model No.: SIC Line 2 Sample No.: 2 of 2 Curve: Single Curve Cut: Shooter's Cut Type: Stand-Alone Plate Size: 10" x 12" Thickness (in.): 0.930 Weight (lbs.): 5.249	1	Crown	0°	.30 Cal. (.30-06)	166 / M2AP	172.9	2892	40.12

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**Test Remarks/Notes:**

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

**Test Requirements:**

Submersion: YES, IAW Section 7.8.2 Armor Submersion  
Drop Test: YES, IAW Sections 6.2.3.3 & 6.3.4 (7)  
BFS: Shot No. 1 Only  
PASS / FAIL: BFS ≤ 44.0mm; No Perforations

**Test Round Description:**

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