



## NIJ-STD-0101.04, Level IIIA – Test Report

Client: [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

Report date: 12 June 2017

Job number: 000007324C

Test procedure and supporting documentation: Per Customer Instructions  
NIJ-STD-0101.04, Level IIIA

Sample receipt, identification information, and disposition: The sample(s) were received on **30 May 2017**. Sample item identification and description details are provided on the attached data record(s). The test sample(s) were inspected prior to testing and no anomalies were discovered. Sample(s) will be returned, discarded, or held, per customer instructions.

Test date(s) and location: Testing commenced on **2 June 2017**, at the H.P. White Laboratory, Inc. facilities located at 3114 Scarboro Road, Street, Maryland. Testing concluded on **2 June 2017**.

Report prepared by: Tiffany Haines, Customer Operations Specialist

Report reviewed by: Chris D'Amario, Engineer

Revision number and date: NA

Test data transmittal method and storage location: This test report and test data were transmitted via email in a manner compliant with ISO 17025 requirements. Permanent electronic and hardcopy files are maintained in accordance with HPWLI data storage policy on data storage systems, filed by job number.

Disclaimer: Testing was performed on sample(s) provided by the client. H.P. White Laboratory, Inc. holds no responsibility for sample selection methods. This report is based on data obtained from testing only the sample(s) submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality or performance of any other items of the same, or similar, design. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. This testing was performed by H.P. White Laboratory, Inc. to client specification, and the test results are the property of the client, who holds all rights of reproduction or publication of this report and related test data.

Destination control statement: These items are controlled by the U.S. government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.



**Ballistic Resistance Testing:** All testing was conducted on an indoor range at ambient conditions, in accordance with your instructions and the modified provisions of NIJ-STD-0101.04, Level IIIA. Testing was conducted using caliber 9mm, 124 gr., FMJ; and .44 MAG, 240 gr., SJHP ammunition. The test sample(s) were positioned 16.4 feet from the muzzle of the barrel to produce zero (0°) and thirty (30°) degree obliquity impacts. Photoelectric infrared screens were located at 6.5 feet and 11.5 feet which, in conjunction with electronic chronographs, were used to compute bullet velocities at 9.0 feet forward of the muzzle. Penetrations were determined by visual examination of the 5.5-inch-thick clay backing material. Back-face signature was measured using a calibrated digital depth gauge. Table I provides a summary of information on the attached data record(s).

**Table I: Ballistic Resistance, NIJ-STD-0101.04, Level IIIA, Summary of Results**

Test Sample			Set-Up			Results				
Conditioning	Sample No.	Weight (lbs.)	Caliber	Obliquity	Shots (a)	Velocity (fps)		Penetration(s)	Deformation (mm) (b)	
						Max	Min		Max	Min
WET	IL-098	2.77	9mm	0°	4	1457	1423	0	22	21
				30°	2	1443	1425	0	N/A	N/A
	IL-099	2.52	.44 MAG	0°	4	1438	1416	0	37	37
				30°	2	1420	1418	0	N/A	N/A

(a) See individual data record(s) for specific shot details

(b) Deformation of 5.5-inch clay backing

**Report prepared by:**

*Tiffany Haines*

Tiffany Haines  
Customer Operations Specialist

**Report reviewed by:**

*Chris D'Amario*

Chris D'Amario  
Engineer



# H.P. White Laboratory, Inc.

## BALLISTIC RESISTANCE TEST

Client : ██████████

Job No. : 000007324

Test Date : 6/2/17

### TEST PANEL

Manufacturer : ██████████  
 Size : 17 x 20 in.  
 Thicknesses : NA  
 Avg. Thick. : NA  
 Description : PROPRIETARY

Sample No. : IL-098 (9mm)  
 Weight : 2.77 lbs.  
 Hardness : NA  
 Plies/Laminates : NA

Date Rec'd. : 5/30/2017  
 Via :  
 Returned :

### SET-UP

Shot Spacing : NIJ-STD-0101.04  
 Witness Panel : NA  
 Obliquity : 0 & 30 deg.  
 Backing Material : 5.5" CLAY/PLYWOOD  
 Conditioning : WET

Primary Vel. Screens : 6.5 ft., 11.5 ft.  
 Primary Vel. Location : 9.0 ft. From Muzzle  
 Residual Vel. Screens : NA  
 Residual Vel. Location : NA  
 Range to Target : 16.4 ft.  
 Target to Wil. : 0.0 in.

Range No. : 2  
 Temp. : 68 F  
 BP : 30.00 in. Hg  
 RH : 53%  
 Barrel No./Gun : 9mm R2  
 Gunner : MACINNES  
 Recorder : WILLIAMS

### AMMUNITION

(1) : 9mm, FMJ, 124 gr.  
 (2) :  
 (3) :  
 (4) :

Lot No. : REMINGTON 23558  
 Lot No. :  
 Lot No. :  
 Lot No. :

### APPLICABLE STANDARDS OR PROCEDURES

- (1) : NIJ-STD-0101.04 LEVEL IIIA (MODIFIED)
- (2) : PRE-TEST CLAY DROPS: 20mm, 19mm, 19mm, 18mm, 18mm
- (3) : PRE-TEST CLAY TEMP: 98.6 F

Shot No.	Ammo	Time 1 (usec)	Velocity 1 (ft/s)	Time 2 (usec)	Velocity 2 (ft/s)	Avg Vel (ft/s)	Penetration	Footnotes
1	1	3509	1425	3504	1427	1426	None	DEF. 22mm
2	1	3432	1457	3432	1457	1457	None	DEF. 21mm
3	1	3514	1423	3514	1423	1423	None	
4	1	3509	1425	3509	1425	1425	None	(a)
5	1	3464	1443	3464	1443	1443	None	(a)
6	1	3492	1432	3492	1432	1432	None	

### REMARKS :

### FOOTNOTES :

(a) SHOT IMPACTED AT A 30 DEGREE ANGLE.



# H.P. White Laboratory, Inc.

## BALLISTIC RESISTANCE TEST

Client : [REDACTED]

Job No. : 000007324 Test Date : 6/2/17

### TEST PANEL

Manufacturer : [REDACTED]  
 Size : 14.75 x 19.5 in.  
 Thicknesses : NA  
 Avg. Thick. : NA  
 Description : PROPRIETARY

Sample No. : IL-099 (.44 MAG)  
 Weight : 2.52 lbs.  
 Hardness : NA  
 Plies/Laminates : NA

Date Rec'd. : 5/30/2017  
 Via :  
 Returned :

### SET-UP

Shot Spacing : NIJ-STD-0101.04  
 Witness Panel : NA  
 Obliquity : 0 & 30 deg.  
 Backing Material : 5.5" CLAY/PLYWOOD  
 Conditioning : WET

Primary Vel. Screens : 6.5 ft., 11.5 ft.  
 Primary Vel. Location : 9.0 ft. From Muzzle  
 Residual Vel. Screens : NA  
 Residual Vel. Location : NA  
 Range to Target : 16.4 ft.  
 Target to Wit. : 0.0 in.

Range No. : 2  
 Temp. : 68 F  
 BP : 30.00 in. Hg  
 RH : 53%  
 Barrel No./Gun : .44 MAG R2  
 Gunner : MACINNES  
 Recorder : WILLIAMS

### AMMUNITION

(1) : .44 MAG SJHP, 240 gr.  
 (2) :  
 (3) :  
 (4) :

Lot No. : REMINGTON 23592  
 Lot No. :  
 Lot No. :  
 Lot No. :

### APPLICABLE STANDARDS OR PROCEDURES

- (1) : NIJ-STD-0101.04 LEVEL IIIA (MODIFIED)
- (2) : PRE-TEST CLAY DROPS: 19mm, 20mm, 20mm, 19mm, 18mm
- (3) : PRE-TEST CLAY TEMP: 99.2 F

Shot No.	Ammo.	Time 1 (usec)	Velocity 1 (ft/s)	Time 2 (usec)	Velocity 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1	1	3531	1416	3531	1416	1416	None	DEF. 37mm
2	1	3477	1438	3477	1438	1438	None	DEF. 37mm
3	1	3518	1421	3518	1421	1421	None	
4	1	3522	1420	3522	1420	1420	None	(a)
5	1	3527	1418	3527	1418	1418	None	(a)
6	1	3513	1423	3513	1423	1423	None	

### REMARKS :

### FOOTNOTES :

(a) SHOT IMPACTED AT A 30 DEGREE ANGLE.