



Ballistic Resistance – Test Report

Client:

Report date: 10 October 2017

Job number: 000007707

Test procedure and supporting documentation: P.O. #2292
NIJ STD-0108.01, Level IIIA and P.O.H. 1709-3010

Sample receipt, identification information, and disposition: The sample(s) were received on 5 October 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 10 October 2017, at the H.P. White Laboratory, Inc. facilities located at 3114 Scarboro Road, Street, Maryland. Testing concluded on 10 October 2017.

Report prepared by: Ashley Gowland, Customer Operations Coordinator

Report reviewed by: Wesley Mason, Manager of Technical Operations - Hard Armor

Revision number and date: NA

Supplement to report: 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 HPWL 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.

Test Procedures

Ballistic Testing. All testing was conducted on an indoor range at ambient conditions, in accordance with your instructions and the general provisions of NIJ-STD-0108.01, Level IIIA. Testing was conducted using caliber 9mm, FMJ, 124 grain and .44 Magnum, SWGC, 240 grain ammunition. The test sample(s) were positioned 16.5 feet from the muzzle of the barrel to produce zero (0°) degree obliquity impacts. Photoelectric infrared screens were located at 6.5 feet and 9.5 feet which, in conjunction with electronic chronographs, were used to compute bullet velocities at 8.0 feet forward of the muzzle. Penetrations were determined by visual examination of the 0.020-inch-thick 2024-T3 aluminum alloy witness plate, placed 6.0 inches behind and parallel to the test sample(s). Table I provides a summary of information on the attached data record(s).

Based on the data presented in Table I, the test sample(s) submitted for testing satisfy the requirements of NIJ-STD-0108.01, Level IIIA.

Table I: Ballistic Resistance, Summary of Results

Test Sample			Set-Up			Results	
Sample No.	Thickness (in.) (a)	Weight (lbs.)	Caliber	Obliquity	Shots (b)	Velocity (fps) Max/Min	Penetrations
P-17-F-12A7258	0.117	1.43	9mm	0°	5	1418/1401	0
P-17-F-12A7259	0.116	1.44	.44 MAGNUM	0°	5	1411/1403	0
(a) Average of thickness measurements							
(b) Shot spacing: 4 on 8" square, 1 in center							
(c) See individual data record(s) for specific footnotes/remarks							

Report prepared by:

Ashley Gowland
Customer Operations Coordinator

Report reviewed by:

Wesley Mason
Manager of Technical Operations - Hard Armor



H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client :

Job No. : 000007707

Test Date : 10/10/17

TEST PANEL

Manufacturer :

Size : 16 x 15.75 in.

Thicknesses : 0.114, 0.119, 0.119, 0.116 in.

Avg. Thk. : 0.117 in.

Description : IMPACT FLEX US ARMD PANEL (CUSTOMER PROVIDED DESCRIPTION)

Sample No. : P-17-F-1247258 (9mm)

Weight : 1.43 lbs.

Hardness : NA

Pierced/Unpierced : NA

Date Rec'd. : 10/5/2017

Vis :

Returned :

SET-UP

Shot Spacing : 4 ON 8" SQUARE - 1 IN CENTER

Witness Panel : 0.020", 2024-T3 ALUMINUM

Obliquity : 0 deg.

Backing Material : NA

Conditioning : AMBIENT

Primary Vel. Screens : 6.5 ft., 9.5 ft.

Primary Vel. Location : 8.0 ft. From Muzzle

Residual Vel. Screens : NA

Residual Vel. Location : NA

Range to Target : 16.5 ft.

Target to Wit. : 6.0 in.

Range No. : 2

Temp. : 69 F

BP : 30.09 in. Hg

RH : 67%

Barrel No./Gun : 9mm R2

Gunner : KAHLER

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-0108.01

(2) : LEVEL IIIA

(3) :

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	2126	1411	2126	1411	1411	None	
2	1	2135	1405	2135	1405	1405	None	
3	1	2118	1416	2114	1419	1418	None	
4	1	2132	1407	2127	1410	1409	None	
5	1	2141	1401	2141	1401	1401	None	

REMARKS :

FOOTNOTES :



H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client :

Job No. : 000007707

Test Date : 10/10/17

TEST PANEL

Manufacturer :

Size : 16 x 15.75 in.

Thicknesses : 0.121, 0.115, 0.113, 0.117 in.

Avg. Thick : 0.116 in.

Description :

IMPACT FLUX US ARMD PANEL (CUSTOMER PROVIDED DESCRIPTION)

Sample No : P-17-F-1247259 (.44 MAG)

Weight : 1.44 lbs.

Hardness : NA

Photo/Thickness : NA

Date Rec'd : 10/5/2017

Vis :

Returned :

SET-UP

Shot Spacing : 4 ON 8" SQUARE - 1 IN CENTER

Witness Panel : 0.020", 2024-T3 ALUMINUM

Obliquity : 0 deg.

Backing Material : NA

Conditioning : AMBIENT

Primary Vel. Screens : 6.5 ft., 9.5 ft.

Primary Vel. Location : 8.0 ft. From Muzzle

Residual Vel. Screens : NA

Residual Vel. Location : NA

Range to Target : 16.5 ft.

Target to Wt. : 6.0 in.

Range No : 2

Temp. : 69 F

BP : 30.09 in. Hg

RH : 67%

Barrel No. Gun : .44 MAG R2

Gunner : KAHLER

Recorder : WILLIAMS

AMMUNITION

(1) : .44 MAGNUM, SWCGC, 240 gr.

(2) :

(3) :

(4) :

Lot No : B44243

Lot No :

Lot No :

Lot No :

APPLICABLE STANDARDS OR PROCEDURES

(1) : NIJ-STD-0108.01

(2) : LEVEL IIIA

(3) :

Shot No.	Ammo	Time 1 (used)	Velocity 1 (ft/s)	Time 2 (used)	Velocity 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1	1	2141	1401	2135	1405	1403	None	
2	1	2132	1407	2132	1407	1407	None	
3	1	2141	1401	2136	1404	1403	None	
4	1	2136	1404	2134	1406	1405	None	
5	1	2128	1410	2123	1413	1411	None	

REMARKS :

FOOTNOTES :