

# H.P. WHITE LABORATORY, INC.

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3 August 2016  
(HPWLI 000006117)

Armor USA, Inc.

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Attention: Brian Wong

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Ballistic Resistance Testing of one (1) armor sample received 1 August 2016 via Federal Express.

Testing was conducted in accordance with your instructions, and the modified provisions of NIJ-STD-0106.01, using 9mm, 124 grain, FMJ and .357 Magnum, 158 grain, JSP ammunition. The test sample was mounted on an indoor range 16.5 feet from the muzzle of a test barrel to produce zero degree obliquity impacts. Photoelectric infrared screens were positioned at 6.5 and 9.5 feet which, in conjunction with elapsed time counters (chronographs), were used to compute projectile velocities 8.0 feet from the muzzle. Table I is a summary of the attached data records.

**Table I. Summary of Results (P/BFS)**

Test Sample			Ballistic Threat			Results		
Sample ID	Weight (lbs)	Thickness (in)	Projectile Threat	Obliquity (Degrees)	Shots	Velocity (fps)		Penetrations
						Max.	Min.	
Model: Vigard-N II M	2.18	0.750	9mm	0	2	1146	1146	0
			.357 Mag.	0	2	1410	1387	0

This report is based on data obtained from having tested only the sample 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.

The test sample is being returned via Federal Express. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Report prepared by:

Tina Chaffman  
Customer Operations Coordinator – PPE

Report reviewed by:

Ray McBride  
General Manager



# H.P. White Laboratory, Inc.

## BALLISTIC RESISTANCE TEST

Client : 59: ARMOR USA, INC.

Job No. : 000006117 Test Date : 8/3/16

### TEST PANEL

Manufacturer : ARMOR USA, INC,  
 Size : 14 X 6 in.  
 Thicknesses : 0.749, 0.749, 0.750, 0.751 in.  
 Avg. Thick. : 0.750 in.  
 Description : MODEL: VIGARD-N II M (109M6)  
 (BALLISTIC VISOR)

Sample No. : MODEL: VIGARD-N II M (109M6)  
 Weight : 2.18 lbs.  
 Hardness : NA  
 Plies/Laminates : NA  
 Date Rec'd. : 8/1/16  
 Via : Federal Express  
 Returned : Federal Express

### SET-UP

Shot Spacing : PER CUSTOMER REQUEST  
 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. : 5.0 in.

Range No. : 3  
 Temp. : 71 F  
 BP : 30.20 in. Hg  
 RH : 45%  
 Barrel No./Gun : R3/ 9mm  
 Gunner : CHES  
 Recorder : BONSALL

### AMMUNITION

(1) : 9mm, FMJ, 124 gr. Lot No. : REMINGTON 23558  
 (2) : Lot No. :  
 (3) : Lot No. :  
 (4) : Lot No. :

### APPLICABLE STANDARDS OR PROCEDURES

- (1) : NIJ-STD-0106.01 (MODIFIED)
- (2) : LEVEL II
- (3) : REQUIRED VELOCITY: 1125-1225 fps.

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	2618	1146	2618	1146	1146	None	(a)
2	1	NR	NR	NR	NR	NR		
3	1	2618	1146	2618	1146	1146	None	(b)

<u>REMARKS :</u>	<u>FOOTNOTES :</u> (a) RIGHT EYE (b) CENTER UPPER
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# H.P. White Laboratory, Inc.

## BALLISTIC RESISTANCE TEST

Client : 59: ARMOR USA, INC.

Job No. : 000006117A Test Date : 8/3/16

### TEST PANEL

Manufacturer : ARMOR USA, INC,  
 Size : 14 X 6 in.  
 Thicknesses : 0.749, 0.749, 0.750, 0.751 in.  
 Avg. Thick. : 0.750 in.  
 Description : MODEL: VIGARD-N II M (109M6)  
 (BALLISTIC VISOR)

Sample No. : MODEL: VIGARD-N II M (109M6)  
 Weight : 2.18 lbs.  
 Hardness : NA  
 Plies/Laminates : NA  
 Date Rec'd. : 8/1/16  
 Via : Federal Express  
 Returned : Federal Express

### SET-UP

Shot Spacing : PER CUSTOMER REQUEST  
 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. : 5.0 in.

Range No. : 3  
 Temp. : 71 F  
 BP : 30.20 in. Hg  
 RH : 45%  
 Barrel No./Gun : R3/ .357 MAG  
 Gunner : CHES  
 Recorder : BONSALL

### AMMUNITION

(1) : .357 MAGNUM, JSP, 158 gr. Lot No. : REMINGTON 22847  
 (2) : Lot No. :  
 (3) : Lot No. :  
 (4) : Lot No. :

### APPLICABLE STANDARDS OR PROCEDURES

- (1) : NIJ-STD-0106.01 (MODIFIED)
- (2) : LEVEL II
- (3) : REQUIRED VELOCITY: 1345-1445 fps.

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	NR	NR	NR	NR	NR		
2	1	2163	1387	2163	1387	1387	None	(a)
3	1	NR	NR	NR	NR	NR		
4	1	2127	1410	2127	1410	1410	None	(b)

<b>REMARKS :</b>	<b>FOOTNOTES :</b> (a) LEFT EYE (b) CENTER LOWER
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