

# H.P. WHITE LABORATORY, INC.

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7 April 2015  
(HPWLI 000004119A)

MJ Safety Solutions, LLC  
70 Wilbur St. Ste 6  
Lowell, MA 01851

Attention: Joseph Curran

In accordance with your instructions, H.P. White Laboratory, Inc. conducted ballistic resistance testing of one (1) armor sample received 3 April 2015 via UPS.

Testing was conducted in accordance with your instructions, and the modified provisions of NIJ-STD-0101.06, Level IIIA, using caliber .357 SIG, 125 grain, FMJ FN ammunition. The test sample was positioned on an indoor range 17.4 feet from the muzzle of a test barrel to produce zero degree obliquity impacts. Photoelectric infrared screens were positioned at 6.5 and 11.5 feet which, in conjunction with elapsed time counters (chronographs), were used to compute projectile velocities 9.0 feet forward of the muzzle. Table I presents a summary of the enclosed data record.

TABLE I. SUMMARY OF RESULTS

Test Sample		Ballistic Threat				Results	
Sample Number	Weight (lb)	Obliquity (degrees)	Caliber	Shots	Velocity(fps) Max. Min.	Penetrations	Deformation (mm) (a) Max / Min
BB-GAP-1	1.14	0	.357 SIG	4	1500 1473	0	39/35
		30		1	1483	0	Na
		45		1	1485	0	Na

(a) Deformation of 5.5 inch clay backing; maximum allowable deformation: 44mm.

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 will be returned via UPS or equivalent. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Reported By

H.P. White Laboratory, Inc.

Tina Chaffman

Reviewed By

H.P. White Laboratory

Ashley Gowland



# H.P. White Laboratory, Inc.

## BALLISTIC RESISTANCE TEST

Client : 3269: MJ SAFETY SOLUTIONS

Job No. : 000004119 Test Date : 4/7/15

### TEST PANEL

Manufacturer : MJ SAFETY SOLUTIONS  
Size : 15.5x12 in.  
Thicknesses : NA  
Avg. Thick. : NA  
Description : PROPRIETARY

Sample No. : BB-GAB-1(.357SIG)  
Weight : 1.14 lbs.  
Hardness : NA  
Plies/Laminates : NA

Date Rec'd. : 4/3/15  
Via : UPS  
Returned : UPS

### SET-UP

Shot Spacing : PER NIJ-STD-0101.06 LEVEL IIIA  
Witness Panel : CLAY  
Obliquity : 0 & 30,45 deg.  
Backing Material : 5.5" CLAY/PLYWOOD  
Conditioning : DRY

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 : 17.4 ft.  
Target to Wit. : 0.0 in.

Range No. : 1  
Temp. : 77 F  
BP : 30.12 in. Hg  
RH : 43%  
Barrel No./Gun : .357SIG/R1  
Gunner : BONSALL  
Recorder : CHES

### AMMUNITION

- (1) : .357SIG FMJ FN, 125 gr.
- (2) :
- (3) :
- (4) :

Lot No. : SPEER 4362  
Lot No. :  
Lot No. :  
Lot No. :

### APPLICABLE STANDARDS OR PROCEDURES

- (1) : NIJ-STD-0101.06 LEVEL IIIA
- (2) : PRE-TEST CLAY DROPS: 20mm, 19mm, 19mm, 18m, 19mm
- (3) : PRE-TEST CLAY TEMP: 98.5 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	3333	1500	3333	1500	1500	None	DEF. 35mm
2	1	3392	1474	3396	1472	1473	None	DEF. 39mm
3	1	3383	1478	3387	1476	1477	None	DEF. 37mm
4	1	3369	1484	3374	1482	1483	None	(a)
5	1	3365	1486	3369	1484	1485	None	(b)
6	1	3374	1482	3378	1480	1481	None	

#### REMARKS :

#### FOOTNOTES :

- (a) IMPACTED ON A 30 DEGREE ANGLE.
- (b) IMPACTED ON A 45 DEGREE ANGLE.