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26 November 2012
(HPWLI 12253-01)

Multiproducts Internacionales, S.A
12 Calle 1-25 Zona 10
Edificio Geminis 10 Local 221
Guatemala

Attention: Oscar Alvarez

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Ballistic Penetration Testing of eight (8) proprietary panels (see data sheets for specific panel information) received on 13 October 2012 via DHL

Testing was conducted in accordance with your instructions and the abbreviated provisions of NIJ-STD-0101.06, Level IIIA using .44 Magnum, 240 grain, SJHP and .357 Sig, 125 grain, TMJ ammunition. The test panels were backed with clay backing and were rigidly fixtured to produce zero, thirty, and forty five-degree obliquity impacts at 17.3 feet. Photoelectric infrared screens were positioned at 6.5 and 11.5 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 9.0 feet forward of the muzzle. Table I provides a summary of the attached data records.

This report is based on data obtained from having tested only the samples 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 samples will be returned via DHL. Should you have any questions regarding this matter, please do not hesitate to contact us.

Sincerely,

H.P. WHITE LABORATORY, INC.

A handwritten signature in black ink, reading "Shawn Krout". The signature is written in a cursive, flowing style with a prominent initial 'S'.

Shawn Krout

SK/tc
Enclosures

Table I. Summary of Results (P/BFD)

Test Sample			Ballistic Threat						Results		
Condition	Sample Number	Size	Weight (lbs)	Projectile Threat	Obliquity (degrees)	Shots	Velocity (fps)		Penetrations	BFD (mm)	
							Max	Min		Max	Min
Submerged	HPW-1	L	3.68	.44 Mag	0	4	1455	1438	0	37	35
					30	1	1445		0	NA	
					45	1	1442		0	NA	
	HPW-2		3.61	.357 Sig	0	4	1485	1465	0	31	29
					30	1	1474		0	NA	
					45	1	1446		0	NA	
Tumbled	HPW-3	3.55	.44 Mag	0	4	1386	1313	0	49	35	
				30	1	1361		0	NA		
				45	1	1381		0	NA		
	HPW-4	3.48	.357 Sig	0	4	1432	1400	0	35	26	
				30	1	1391		0	NA		
				45	1	1423		0	NA		
	HPW-5	3.55	.44 Mag	0	4	1389	1325	0	37	30	
				30	1	1351		0	NA		
				45	1	1351		0	NA		
	HPW-6	3.43	.357 Sig	0	4	1451	1403	0	29	27	
				30	1	1410		0	NA		
				45	1	1411		0	NA		
HPW-7	3.53	.44 Mag	0	4	1344	1321	0	40	35		
			30	1	1356		0	NA			
			45	1	1342		0	NA			
HPW-8	3.43	.357 Sig	0	4	1424	1395	0	29	23		
			30	1	1404		0	NA			
			45	1	1422		0	NA			



TEST PANEL

Manufacturer : MULTIPRODUCTS INTERNACIONALES, S.A. Sample No. : HPW-1 (44MAG) (BACK)

Size : LARGE in.

Weight : 3.68 lbs.

Date Rec'd. : 10/13/12

Thicknesses : NA

Hardness : NA

Via : DHL

Avg. Thick. : NA

Plies/Laminates : NA

Returned : DHL

Description : PROPRIETARY.

LOT# 65; SAMPLE # 0008

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Range No. : 1

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

Temp. : 70 F

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

BP : 29.67 in. Hg

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

RH : 33%

Conditioning : SUBMERGED

Range to Target : 17.3 ft.

Barrel No./Gun : 44MAG R/1

Target to Wit. : 0.0 in.

Gunner : SHEAHY

Recorder : ADAMS

AMMUNITION

(1) : .44MAG SJHP, 240 gr.

Lot No. : SPEER C09S

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.06 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAY DROPS: 19mm, 19mm, 18mm, 18mm

(3) : PRE-TEST CLAY TEMP: 98.2 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	3450	1449	3464	1443	1446	None	DEF. 35mm
2	1	3450	1449	3464	1443	1446	None	DEF. 36mm
3	1	3468	1442	3486	1434	1438	None	DEF. 37mm
4	1	3455	1447	3464	1443	1445	None	(a)
5	1	3459	1446	3474	1439	1442	None	(b)
6	1	3428	1459	3446	1451	1455	None	

REMARKS : R1B1	FOOTNOTES : (a) SHOT IMPACTED ON A 30 DEGREE ANGLE. (b) SHOT IMPACTED ON A 45 DEGREE ANGLE.
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TEST PANEL

Manufacturer : MULTIPRODUCTS INTERNACIONALES, S.A. Sample No. : HPW-2 (357SIG) (FRONT)

Size : LARGE in.

Weight : 3.61 lbs.

Date Rec'd. : 10/13/12

Thicknesses : NA

Hardness : NA

Via : DHL

Avg. Thick. : NA

Plies/Laminates : NA

Returned : DHL

Description : PROPRIETARY.

LOT# 65; SAMPLE # 0008

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Range No. : 1

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

Temp. : 70 F

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

BP : 29.67 in. Hg

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

RH : 33%

Conditioning : SUBMERGED

Range to Target : 17.3 ft.

Barrel No./Gun : 357SIG R/1

Target to Wit. : 0.0 in.

Gunner : SHEAHY

Recorder : ADAMS

AMMUNITION

(1) : 357SIG TMJ, 125 gr.

Lot No. : SPEER D220

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.06 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAY DROPS: 19mm, 19mm, 18mm, 18mm

(3) : PRE-TEST CLAY TEMP: 98.2 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	3392	1474	3392	1474	1474	None	DEF. 29mm
2	1	3365	1486	3369	1484	1485	None	DEF. 29mm
3	1	3410	1466	3414	1465	1465	None	DEF. 31mm
4	1	3392	1474	3392	1474	1474	None	(a)
5	1	3455	1447	3459	1446	1446	None	(b)
6	1	3405	1468	3410	1466	1467	None	

REMARKS : R1B1	FOOTNOTES : (a) SHOT IMPACTED ON A 30 DEGREE ANGLE. (b) SHOT IMPACTED ON A 45 DEGREE ANGLE.
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TEST PANEL

Manufacturer : MULTIPRODUCTS INTERNACIONALES, S.A. Sample No. : HPW-3 (44MAG) (BACK)

Size : LARGE in.

Weight : 3.55 lbs.

Date Rec'd. : 10/31/12

Thicknesses : NA

Hardness : NA

Via : DHL

Avg. Thick. : NA

Plies/Laminates : NA

Returned : DHL

Description : PROPRIETARY.

LOT# 65; SAMPLE # 0009

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Range No. : 1

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

Temp. : 68 F

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

BP : 29.67 in. Hg

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

RH : 40%

Conditioning : TUMBLED

Range to Target : 17.3 ft.

Barrel No./Gun : 44MAG R/1

Target to Wit. : 0.0 in.

Gunner : CHES

Recorder : PAYNE

AMMUNITION

(1) : .44MAG SJHP, 240 gr.

Lot No. : SPEER C09S

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.06 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAY DROPS: 20mm, 20mm, 19mm, 20mm, 19mm

(3) : PRE-TEST CLAY TEMP: 98.4 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	3617	1382	3621	1381	1382	None	DEF. 35mm
2	1	3810	1312	3806	1314	1313	None	DEF. 35mm
3	1	3608	1386	3608	1386	1386	None	DEF. 49mm
4	1	3676	1360	3672	1362	1361	None	(a)
5	1	3621	1381	3621	1381	1381	None	(b)
6	1	3729	1341	3725	1342	1342	None	

REMARKS : R1B2	FOOTNOTES : (a) SHOT IMPACTED ON A 30 DEGREE ANGLE. (b) SHOT IMPACTED ON A 45 DEGREE ANGLE.
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TEST PANEL

Manufacturer : MULTIPRODUCTS INTERNACIONALES, S.A. Sample No. : HPW-4 (357SIG) (FRONT)

Size : LARGE in.

Weight : 3.48 lbs.

Date Rec'd. : 10/31/12

Thicknesses : NA

Hardness : NA

Via : DHL

Avg. Thick. : NA

Plies/Laminates : NA

Returned : DHL

Description : PROPRIETARY.

LOT# 65; SAMPLE # 0009

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Range No. : 1

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

Temp. : 68 F

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

BP : 29.67 in. Hg

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

RH : 38%

Conditioning : TUMBLED

Range to Target : 17.3 ft.

Barrel No./Gun : 357SIG R/1

Target to Wit. : 0.0 in.

Gunner : CHES

Recorder : PAYNE

AMMUNITION

(1) : 357SIG TMJ, 125 gr.

Lot No. : SPEER D220

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.06 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAY DROPS: 21mm, 21mm, 19mm, 20mm, 20mm

(3) : PRE-TEST CLAY TEMP: 98.7 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	3516	1422	3518	1421	1422	None	DEF. 26mm
2	1	3545	1410	3549	1409	1410	None	DEF. 29mm
3	1	3572	1400	3572	1400	1400	None	DEF. 35mm
4	1	3513	1423	3513	1423	1423	None	(b)
5	1	3594	1391	3594	1391	1391	None	(a)
6	1	3491	1432	3491	1432	1432	None	

REMARKS : RIB3	FOOTNOTES : (a) SHOT IMPACTED ON A 30 DEGREE ANGLE. (b) SHOT IMPACTED ON A 45 DEGREE ANGLE.
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TEST PANEL

Manufacturer : MULTIPRODUCTS INTERNACIONALES, S.A. Sample No. : HPW-5 (44MAG) (BACK)

Size : LARGE in.

Weight : 3.55 lbs.

Date Rec'd. : 10/31/12

Thicknesses : NA

Hardness : NA

Via : DHL

Avg. Thick. : NA

Plies/Laminates : NA

Returned : DHL

Description : PROPRIETARY.

LOT# 65; SAMPLE # 0010

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Range No. : 1

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

Temp. : 69 F

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

BP : 29.67 in. Hg

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

RH : 38%

Conditioning : TUMBLED

Range to Target : 17.3 ft.

Barrel No./Gun : 44MAG R/1

Target to Wit. : 0.0 in.

Gunner : CHES

Recorder : PAYNE

AMMUNITION

(1) : .44MAG SJHP, 240 gr.

Lot No. : SPEER C09S

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.06 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAY DROPS: 20mm, 20mm, 19mm, 20mm, 19mm

(3) : PRE-TEST CLAY TEMP: 98.4 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	3770	1326	3774	1325	1326	None	DEF. 30mm
2	1	3599	1389	3599	1389	1389	None	DEF. 34mm
3	1	3698	1352	3698	1352	1352	None	DEF. 37mm
4	1	3702	1351	3698	1352	1351	None	(b)
5	1	3702	1351	3698	1352	1351	None	(a)
6	1	3774	1325	3774	1325	1325	None	

REMARKS : R1B2	FOOTNOTES : (a) SHOT IMPACTED ON A 30 DEGREE ANGLE. (b) SHOT IMPACTED ON A 45 DEGREE ANGLE.
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TEST PANEL

Manufacturer : MULTIPRODUCTS INTERNACIONALES, S.A. Sample No. : HPW-6 (357SIG) (FRONT)

Size : LARGE in.

Weight : 3.43 lbs.

Date Rec'd. : 10/31/12

Thicknesses : NA

Hardness : NA

Via : DHL

Avg. Thick. : NA

Plies/Laminates : NA

Returned : DHL

Description : PROPRIETARY.

LOT# 65; SAMPLE # 0010

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Range No. : 1

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

Temp. : 70 F

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

BP : 29.67 in. Hg

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

RH : 33%

Conditioning : TUMBLED

Range to Target : 17.3 ft.

Barrel No./Gun : 357SIG R/1

Target to Wit. : 0.0 in.

Gunner : CHES

Recorder : PAYNE

AMMUNITION

(1) : 357SIG TMJ, 125 gr.

Lot No. : SPEER D220

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.06 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAY DROPS: 21mm, 21mm, 19mm, 20mm, 20mm

(3) : PRE-TEST CLAY TEMP: 98.7 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	3446	1451	3446	1451	1451	None	DEF. 27mm
2	1	3477	1438	3477	1438	1438	None	DEF. 29mm
3	1	3531	1416	3536	1414	1415	None	DEF. 28mm
4	1	3549	1409	3545	1410	1410	None	(a)
5	1	3540	1412	3545	1410	1411	None	(b)
6	1	3567	1402	3563	1403	1403	None	

REMARKS : R1B3	FOOTNOTES : (a) SHOT IMPACTED ON A 30 DEGREE ANGLE. (b) SHOT IMPACTED ON A 45 DEGREE ANGLE.
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TEST PANEL

Manufacturer : MULTIPRODUCTS INTERNACIONALES, S.A. Sample No. : HPW-7 (44MAG) (BACK)

Size : LARGE in.

Weight : 3.53 lbs.

Date Rec'd. : 10/31/12

Thicknesses : NA

Hardness : NA

Via : DHL

Avg. Thick. : NA

Plies/Laminates : NA

Returned : DHL

Description : PROPRIETARY.

LOT# 65; SAMPLE # 0011

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Range No. : 1

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

Temp. : 69 F

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

BP : 29.67 in. Hg

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

RH : 37%

Conditioning : TUMBLED

Range to Target : 17.3 ft.

Barrel No./Gun : 44MAG R/1

Target to Wit. : 0.0 in.

Gunner : CHES

Recorder : PAYNE

AMMUNITION

(1) : .44MAG SJHP, 240 gr.

Lot No. : SPEER C09S

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.06 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAY DROPS: 20mm, 20mm, 19mm, 20mm, 19mm

(3) : PRE-TEST CLAY TEMP: 98.4 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	3720	1344	3720	1344	1344	None	DEF. 35mm
2	1	3779	1323	3779	1323	1323	None	DEF. 39mm
3	1	3788	1320	3783	1322	1321	None	DEF. 40mm
4	1	3684	1357	3689	1355	1356	None	(a)
5	1	3689	1355	3684	1357	1356	None	(b)
6	1	3725	1342	3725	1342	1342	None	

REMARKS :	FOOTNOTES : (a) SHOT IMPACTED ON A 30 DEGREE ANGLE. (b) SHOT IMPACTED ON A 45 DEGREE ANGLE.
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TEST PANEL

Manufacturer : MULTIPRODUCTS INTERNACIONALES, S.A. Sample No. : HPW-8 (357SIG) (FRONT)

Size : LARGE in.

Weight : 3.43 lbs.

Date Rec'd. : 10/31/12

Thicknesses : NA

Hardness : NA

Via : DHL

Avg. Thick. : NA

Plies/Laminates : NA

Returned : DHL

Description : PROPRIETARY.

LOT# 65; SAMPLE # 0011

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06

Primary Vel. Screens : 6.5 ft., 11.5 ft.

Range No. : 1

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

Temp. : 70 F

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

BP : 29.67 in. Hg

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

RH : 33%

Conditioning : TUMBLED

Range to Target : 17.3 ft.

Barrel No./Gun : 357SIG R/1

Target to Wit. : 0.0 in.

Gunner : CHES

Recorder : PAYNE

AMMUNITION

(1) : 357SIG TMJ, 125 gr.

Lot No. : SPEER D220

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

(1) : PER-NIJ-STD-0101.06 LEVEL IIIA (ABBREVIATED)

(2) : PRE-TEST CLAY DROPS: 21mm, 21mm, 19mm, 20mm, 20mm

(3) : PRE-TEST CLAY TEMP: 98.7 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	3546	1410	3544	1411	1410	None	DEF. 23mm
2	1	3585	1395	3581	1396	1395	None	DEF. 26mm
3	1	3563	1403	3563	1403	1403	None	DEF. 29mm
4	1	3516	1422	3518	1421	1422	None	(b)
5	1	3563	1403	3558	1405	1404	None	(a)
6	1	3513	1423	3509	1425	1424	None	

REMARKS : R1B3	FOOTNOTES : (a) SHOT IMPACTED ON A 30 DEGREE ANGLE. (b) SHOT IMPACTED ON A 45 DEGREE ANGLE.
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