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23 July 2010
(HPWLI 11577-02B)

Sunsion Outdoor Equipments Manufacturing Co., Ltd
No.5 of Xian Men South Rd., Panqiao Town,
Wenzhou, China
Post Code: 325000

Attention: Su Jianchun

Leison Co., Ltd.
KaiXuan Men, Shunguang Mansion
Jiangbin RD,
Wenzhou, China

Attention: Lucy King

Gentlemen:

H.P. White Laboratory, Inc. conducted ballistic resistance testing of one proprietary armor sample received 14 July 2009 via Federal Express.

Testing was conducted in accordance with your instructions, and the modified provisions of NIJ-STD-0101.06, Level IIIA, using caliber .44 Magnum, 240 grain, SJHP ammunition only. The test sample was positioned on an indoor range 17.3 feet from the muzzle of a test barrel to produce zero, thirty, and forty-five degree obliquity impacts. Photoelectric lumiline 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	
Number	Weight (lb)	Obliquity (degrees)	Caliber	Shots	Velocity (fps) Max. Min.		Penetrations	Deformation (mm) (a)
TEST 2	2.09	0	.44 Magnum	4	1430	1420	0	38/36
		30		1	1418		0	Na
		45		1	1431		0	Na
(a) Deformation of 5.5 inch clay backing.								

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 was returned to the custody of your representatives. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Very truly yours,

H.P. White Laboratory, Inc.



Craig B. Dunn

CBD/tc
Enclosure



H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client : LEISON CO.,LTD

Job No. : 11577-02

Test Date : 7/20/10

TEST PANEL

Manufacturer : SUNSION OUTDOOR EQUIPMENTS MANUFACTURING CO.,LTD

Size : 15 X 15 in.

Weight : 2.09 lbs.

Sample No. : TEST 2

Date Rec'd. : 7/14/2010

Via : Federal Express

Returned : Federal Express

Thicknesses : NA

Hardness : NA

Avg. Thick. : NA

Plies/Laminates : 42

Description : PROPRIETARY

TACTEX UD PREPREG; AREAL DENSITY OF SAMPLE: 145+-5g/m2

SET-UP

Shot Spacing : PER-NIJ-STD-0101.06 LEVEL IIIA

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

Range No. : 2

Temp. : 72 F

Witness Panel : CLAY

Primary Vel. Location : 9.0 ft. From Muzzle

BP : 30.00 in. Hg

Obliquity : 0, 30 & 45 deg.

Residual Vel. Screens : NA

RH : 70%

Backing Material : 5.5" CLAY/PLYWOOD

Residual Vel. Location : NA

Barrel No./Gun : 44 MAG/R-2

Gunner : T. HOPKINS

Conditioning : AMBIENT

Range to Target : 17.3 ft.

Target to Wit. : 0.0 in.

Recorder : D. ADAMS

AMMUNITION

(1) : 44 MAG SJHP, 240 gr.

Lot No. : REMINGTON 23592

(2) :

Lot No. :

(3) :

Lot No. :

(4) :

Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

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

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

(3) : PRE-TEST TEMP: 98.8 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	3510	1425	3522	1420	1422	None	DEF. 37mm
2	1	3513	1423	3517	1422	1422	None	DEF. 38mm
3	1	3517	1422	3527	1418	1420	None	DEF. 36mm
4	1	3491	1432	3495	1431	1431	None	(b)
5	1	3522	1420	3528	1417	1418	None	(a)
6	1	3495	1431	3498	1429	1430	None	

REMARKS :

FOOTNOTES :

(a) SHOT IMPACTED ON A 30 DEGREE ANGLE.

(b) SHOT IMPACTED ON A 45 DEGREE ANGLE.