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11 April 2013
(HPWLI 000000610B)

Shenzhen Guodun Armor Technology Co., Ltd.
6/F, 3rd B/D, 46 Huaning Rd.
Dalang, Longhua
Shenzhen 518109
G.D. China

Attention: Mr. Alejandro Shaw

In accordance with instructions, H.P. White Laboratory, Inc. conducted ballistic resistance testing of one armor sample (see enclosed data record for construction description) received 1 April 2013 via DHL.

Testing was conducted in accordance with your instructions, and the modified provisions of NIJ-STD-0101.06, using caliber .44 Magnum, 240 grain, SJHP ammunition. 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. Velocity 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 from 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)	Plies	Caliber	Obliquity (degrees)	Shots	Velocity(fps) Max. Min.	Pene- tration	Deformation (mm) (a)
HPW-2	1.80	40	.44 Magnum	0	4	1447 1405	0	40/37
				30	1	1446	0	Na
				45	1	1430	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 is being returned via DHL. 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

Shawn Krout

SK/tc
Enclosure



H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client : 5155: Shenzhen Guodun Armor Technology [CHINA]

Job No. : 000000610 Test Date : 4/10/13

TEST PANEL

Manufacturer : Shenzhen Guodun Armor Technology [CHINA] Sample No. : HPW-2 (44 MAG)
 Size : 15.5 x 16 in. Weight : 1.80 lbs.
 Thicknesses : NA Hardness : NA
 Avg. Thick. : NA Plies/Laminates : 40
 Description : LAYERS 1-40. FLEX POLYETHYLENE FILM.
 MODEL: GD-SB130/40; SERIAL#: GDB03260002; LOT#: GD20303

Date Rec'd. : 4/1/13
 Via : DHL
 Returned : DHL

SET-UP

Shot Spacing : PER NIJ-STD-0101.06
 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 : 17.3 ft.
 Target to Wit. : 0.0 in.

Range No. : 2
 Temp. : 68 F
 BP : 29.83 in. Hg
 RH : 58%
 Barrel No./Gun : 44mag/R2
 Gunner : CHES
 Recorder : PAYNE

AMMUNITION

(1) : 44 MAG SJHP, 240 gr. Lot No. : SPEER B28T
 (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, 19mm, 19mm, 20mm, 18mm
- (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	3550	1408	3567	1402	1405	None	DEF. 39mm
2	1	3469	1441	3456	1447	1444	None	DEF. 37mm
3	1	3464	1443	3445	1451	1447	None	DEF. 40mm
4	1	3459.	1446	3456	1447	1446	None	(a)
5	1	3504	1427	3489	1433	1430	None	(b)
6	1	3509	1425	3496	1430	1428	None	

REMARKS :

FOOTNOTES :

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