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8 August 2011
(HPWLI 11812-03B)

Daw Technologies Ballistic Products, Inc.
1600 West 2200 South, Suite 201
Salt Lake City, Utah 84119

Attention: Peter Spransy

Gentlemen:

In accordance with your instructions, H.P. White Laboratory, Inc. conducted ballistic resistance testing of two proprietary armor samples received 8 July 2011 via United Parcel Service.

Testing was conducted in accordance with the provisions of NIJ-STD-0108.01, BALLISTIC RESISTANT PROTECTIVE MATERIALS, dated September 1985, Level IV, using caliber .30-06 Springfield, AP, M2 ammunition. The test samples were rigidly fixtured on an indoor range 50.0 feet from the muzzle of a test barrel to produce zero degree obliquity impacts. Velocity screens were positioned at 6.5 and 9.5 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 8.0 feet forward of the muzzle. Penetrations were determined by visual examination of a 0.020 inch thick aluminum alloy 2024T3 witness panel positioned 6.0 inches behind, and parallel to, the test samples. Table I presents a summary of the enclosed data records.

Table I. Summary of Results

Test Sample			Ballistic Threat				Results	
Number	Weight (lb)	Thickness (in) (a)	Caliber	Obliquity (degrees)	Shots	Velocity (fps)		Penetrations
						Max	Min	
WB1015F	20.46	1.207	.30, AP, M2	0	1	2822		0
WB1016G	17.20	1.061	.30, AP, M2	0	1	2824		0

(a) Average of four corner thicknesses.

Based on the data presented in Table I, the test sample submitted for testing SATISFIED the ballistic resistance requirements of NIJ-STD-0108.01, Level IV. This conclusion 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 are being discarded. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Lester W. Roane

LWR/tc
Enclosures



H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client : DAW TECH

Job No. : 11812-03

Test Date : 8/8/11

TEST PANEL

Manufacturer : DAW TECH
 Size : 12 x 12 in.
 Thicknesses : 1.190, 1.227, 1.203, 1.208 in.
 Avg. Thick : 1.207 in.
 Description : PROPRIETARY.
 SAMPLE# WB1015F-B101511002

Sample No. : WB1015F
 Weight : 20.46 lbs.
 Hardness : NA
 Plies/Laminates : NA

Date Rec'd. : 07/08/11
 Via : UPS
 Returned : N/A

SET-UP

Shot Spacing : 1 SHOT IN CENTER
 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 : 50.0 ft.
 Target to Wit. : 6.0 in.

Range No. : 6
 Temp. : 70 F
 BP : 29.40 in. Hg
 RH : 70%
 Barrel No./Gun : R6/ 30.06
 Gunner : T.CONTRERAS
 Recorder : MASON

AMMUNITION

(1) : CAL. .30 AP, M2, 166 gr.
 (2) :
 (3) :
 (4) :

Lot No. : UNKNOWN
 Lot No. :
 Lot No. :
 Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

- (1) : NIJ-STD-0108.01
- (2) : LEVEL IV
- (3) : REQUIRED VELOCITY: 2800-2900 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	1065	2817	1061	2828	2822	None	

<u>REMARKS :</u>	<u>FOOTNOTES :</u>
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H.P. White Laboratory, Inc.

BALLISTIC RESISTANCE TEST

Client : DAW TECH

Job No. : 11812-03

Test Date : 8/8/11

TEST PANEL

Manufacturer : DAW TECH
 Size : 12 x 12 in.
 Thicknesses : 1.060, 1.058, 1.072, 1.055 in.
 Avg. Thick : 1.061 in.
 Description : PROPRIETARY.
 SAMPLE# WB1016G-B101611002

Sample No. : WB1016G
 Weight : 17.20 lbs.
 Hardness : NA
 Plies/Laminates : NA

Date Rec'd. : 07/08/11
 Via : UPS
 Returned : N/A

SET-UP

Shot Spacing : 1 SHOT IN CENTER
 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 : 50.0 ft.
 Target to Wit. : 6.0 in.

Range No. : 6
 Temp. : 70 F
 BP : 29.40 in. Hg
 RH : 70%
 Barrel No./Gun : R6/ 30.06
 Gunner : T.CONTRERAS
 Recorder : MASON

AMMUNITION

(1) : CAL. .30 AP, M2, 166 gr.
 (2) :
 (3) :
 (4) :

Lot No. : UNKNOWN
 Lot No. :
 Lot No. :
 Lot No. :

APPLICABLE STANDARDS OR PROCEDURES

- (1) : NIJ-STD-0108.01
- (2) : LEVEL IV
- (3) : REQUIRED VELOCITY: 2800-2900 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	1065	2817	1060	2830	2824	None	

<u>REMARKS :</u>	<u>FOOTNOTES :</u>
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