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H.P. WHITE LABORATORY, INC.

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29 March 1994
(HPWLI 6510-02A)

ITD Industries, Inc.
2544 Terminal Drive South
St. Petersburg, Florida 33712

Attention: Mr. Steve Hojnowski

Gentlemen:

In accordance with your letter dated 14 March 1994, H.P. White Laboratory, Inc. conducted Ballistic Resistance Testing of two (2) coupons of transparent glass (1/2 inch thickness and 3/4 inch thickness monolithic float glass with NRLW 1200 C90 PS SCR safety film) received on 23 March 1994 via United Parcel Service.

Testing was conducted in accordance with the general requirements of HPW-TP-0500.02, dated September 1993, using calibers .38 Special, 158.0 grain, Lead and 9mm, Luger, 124.0 grain, FMJ ammunition. The test samples were mounted on an indoor range 25.0 feet from the muzzle of a test barrel to produce zero (0) degree obliquity impacts. Lumiline screens were positioned at 5.0 and 15.0 feet which, in conjunction with an elapsed time counter (chronograph), were used to compute projectile velocities 10.0 feet from the muzzle. Penetrations were determined by visual examination of a 0.001 inch thick sheet of aluminum foil positioned 6.0 inches behind, and parallel to, the test samples. Table I presents a summary of the attached data records.

TABLE I. SUMMARY OF RESULTS

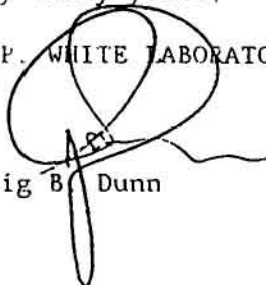
Test Sample			Ballistic Threat				Results
Number	Thickness (in)	Weight (a) (lbs.)	Caliber	Shots	Velocity(fps) Max. Min.		Penetrations
<u>NRLW 1200 C90 PS SCR -</u>							
A	0.514	6.58	.38 Spl.	3	796	754	1
B	0.752	9.60	9mm	3	1129	1112	0

(a) Average of four corner thicknesses.

Enclosed please find a videotape of testing. Per your instructions, the test sample is being returned via United Parcel Service. 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/lt
enclosures

Date Rec'd : 3/23/94
 via : UPS
 returned : UPS
 file (HPWLI): A-ITD.PIN

H. P. WHITE LABORATORY, INC.
 DATA RECORD
 -BALLISTIC RESISTANCE TESTS-

Job No. : 6510-02
 Test Date: 3/29/94
 Customer : ITD INDUSTRIES

TEST PANEL

Description : 1/2" FLOAT GLASS + NRLW 1200 C90 PS SCR SAFETY
 FILM
 Manufacturer: ITD INDUSTRIES
 Size : 12 x 12 in.
 Thicknesses : 0.513, 0.513, 0.514, 0.514
 Avg. Thick. : 0.514 in.
 Sample No. : A
 Weight : 6.58 lbs.
 Hardness : NA
 Plies/Laminates: 2

AMMUNITION

(1): .38 Spl. 158 gr. LEAD
 (2):
 (3):
 (4):
 Lot No.: REMINGTON LOT #: U88K C6702
 Lot No.:
 Lot No.:
 Lot No.:

SET-UP

Vel. Screens : 5.0 ft. & 15.0 ft.
 Shot Spacing : 3 SHOTS ON 8" CIRCLE
 Barrel No./Gun : 357-6A
 Obliquity : 0 deg.
 Witness Panel : .001" ALUMINUM FOIL
 Range to Target : 25 ft.
 Range Number : 3
 Backing Material: NA
 Target to Wit. : 6.0ins.
 Conditioning : DRY

APPLICABLE STANDARDS OR PROCEDURES

- (1): HPW-TP-0500.02
- (2): REQUIRED VELOCITY : 700-800 fps
- (3):

Shot No.	Ammo.	Time sx10-5	Velocity ft/s	Time sx10-5	Velocity ft/s	Avg. Vel. ft/s	Penetration	Footnotes
1	1	1325	755	1326	754	754	None	
2	1	1256	796	1256	796	796	Bullet/Spall	
3	1	1281	781	1281	781	781	None	

FOOTNOTES:

REMARKS:
 Local BP-29.90 in. Hg, Temp.-68.0 F, RH- 48%

Gunner/Recorder: M. MURRAY/POOLE