



UNIVERSITY OF DAYTON RESEARCH INSTITUTE
IMPACT PHYSICS LABORATORY

DAYTON, OHIO 45469-0116

937/229-4237

BALLISTIC TEST REPORT

Prepared For: American Glass Products (AGP)

Test Date: 17 February 2011

Contract/Order No.: _____

Ambient Temperature: 72 °F

Relative Humidity: 38 %

Test Panel Identification: Ballistic Samples L17-1 [C043442, 3-90]

500mm x 500mm x 19.63lb Test Specification NIJ Level 3A.

Type: Multilayer Glass Transparency

Grade: Formula: L17-1

Thickness (Avg.): 0.689 inch(es)

Areal Density: 7.3 lbs/sq.ft.

Projectile Caliber: .44 Mag. (240 grain)

Projectile Type: SWC, Horandy Item #1110

Propellant Type: IMR 4227

Gun I.D.: S/N: 44 MagNIJLg

Witness Plate Material: 0.020" Thick 2024-T3 Bare Aluminum

Impact Obliquity: 0 degrees

File Name: 10021711b.doc

Shot Number	Weights (Grains)		Velocity Data (ft/sec)			Penetration Description
	Projectile	Propellant	No. 1	No. 2	Average	
						Sample C043442-90
10-77860	240.2	21.0	1427	1427	1427	No Penetration, Center
10-77861	239.7	20.8	1368	1363	1366	No Penetration, ULC
10-77862	239.5	20.8	1371	1366	1369	No Penetration, URC
10-77863	239.4	20.8	1367	1361	1364	No Penetration, LRC
10-77864	239.5	20.8	1377	1377	1377	No Penetration, LLC
						Sample C043443-90
10-77865	239.6	20.8	1369	1364	1367	No Penetration, Center
10-77866	239.8	20.8	1369	1360	1365	No Penetration, ULC
10-77867	239.9	20.8	1364	1355	1360	No Penetration, URC
10-77868	239.3	20.8	1393	1392	1393	No Penetration, LRC
10-77869	239.4	20.8	1373	1368	1371	No Penetration, LLC

Comments: Test Criteria: Test IAW NIJ 0108-01 "Protective Materials" Level 3A. Impacts equally spaced on a 200mm shot square, with 1st shot at center.

Test only 44 Mag directed by sponsor (velocity criteria is 1400 ± 50 fps)

Sample set PASSED test specifications.

Ronald Hoffman

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Date: 2011.12.12 12:25:04 -05'00'

Witness: _____

Witness: _____