

UNIVERSITY OF DAYTON RESEARCH INSTITUTE
IMPACT PHYSICS LABORATORY
 DAYTON, OHIO 45469-0182 937/229-3861

BALLISTIC TEST REPORT

Prepared For: American Glass Products Company

Test Date: 22 January 2007 Contract/Order No.: _____

Ambient Temperature: 71 °F Relative Humidity: 29 %

Test Panel Identification: American Glass Products (AGP)

Glass Sample: Formula L21-1

Nominal 20"x 20" x 24.9 lb; Test Specifications are Documented Below

Type: Multilayer Transparency Grade: L21-1

Thickness (Avg.): 0.835 inch(es) Areal Density: 9.0 lbs/sq.ft.

Projectile Caliber: .44 Mag. (240 grain) Projectile Type: SWC, Hornady #1110

Propellant Type: IMR 4227 Gun I.D.: SN: 44MagNIJLg

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

Impact Obliquity: 0 degrees File Name: 1001227c.doc

Shot Number	Weights (Grains)		Velocity Data (ft/sec)			Penetration
	Projectile	Propellant	No. 1	No. 2	Average	Description
						C17874-90
10-57019	240.3	20.2	1358	1354	1356	No Penetration, ULC
10-57020	240.5	20.2	1351	1350	1351	No Penetration, URC
10-57021	240.6	20.5	1368	1363	1366	No Penetration, LRC
10-57022	240.5	21.0	1488	1482	1485	No Penetration, LLC
10-57023	240.8	20.4	1373	1368	1371	No Penetration, Center
						C17875-90
10-57024	240.0	20.8	1394	1384	1389	No Penetration, ULC
10-57025	240.4	20.8	1369	1360	1365	No Penetration, URC
10-57026	239.7	20.8	1374	1369	1372	No Penetration, LRC
10-57027	240.5	20.8	1385	1379	1382	No Penetration, LLC
10-57028	240.5	20.8	1392	1383	1388	No Penetration, Center
						C17876-90
10-57029	240.8	20.8	1396	1391	1394	No Penetration, ULC
10-57030	240.7	20.8	1370	1361	1366	No Penetration, URC
10-57031	241.4	20.8	1391	1382	1386	No Penetration, LRC
10-57032	240.7	20.8	1391	1385	1388	No Penetration, LLC
10-57033	240.8	20.8	1398	1397	1398	No Penetration, Center

Comments: Test Criteria: NIJ IIIA @ 1400 ± 50 fps.
Five impacts in a 200mm square. Panels PASSED Test Specification.

Witness: Ronald Hoffman

Digitally signed by Ronald Hoffman
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 Date: 2011.12.12 14:15:02 -05'00'

Witness: _____