



UNIVERSITY OF DAYTON RESEARCH INSTITUTE
IMPACT PHYSICS LABORATORY
 DAYTON, OHIO 45469-0116 937/229-4237

BALLISTIC TEST REPORT

Prepared For: American Glass Products Company

Test Date: 02 September 2009 Contract/Order No.: _____

Ambient Temperature: 68 °F Relative Humidity: 47 %

Test Panel Identification: American Glass Products (AGP) [CO33704, 705, 706-90]

Glass Sample: Formula L21-7

Nominal 19.75"x19.75"x 25.8lb; Test IAW NIJ-STD-0108.01 Level IIIA

Type: Multilayer Glass Transparency Laminate Grade: Formula: L21-7

Thickness (Avg.): 0.864 inch(es) Areal Density: 9.5 lbs/sq.ft.

Projectile Caliber: .44Mag (240 grain) Projectile Type: SWC, Speer #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: 909029a.doc

Shot Number	Weights (Grains)		Velocity Data (ft/sec)			Penetration Description
	Projectile	Propellant	No. 1	No. 2	Average	
CO33704-90						
9-25724	239.1	21.6	1399	1398	1399	No Penetration, Center
9-25725	239.4	21.6	1418	1418	1418	No Penetration, ULC
9-25726	238.6	21.6	1397	1396	1397	No Penetration, URC
9-25727	239.8	21.6	1399	1398	1399	No Penetration, LRC
9-25728	238.9	21.6	1416	1413	1415	No Penetration, LLC
CO33705-90						
9-25729	239.9	21.6	1393	1393	1393	No Penetration, Center
9-25730	240.3	21.6	1376	1375	1376	No Penetration, ULC
9-25731	239.8	21.6	1382	1381	1382	No Penetration, URC
9-25732	240.0	21.6	1372	1372	1372	No Penetration, LRC
9-25733	239.4	21.6	1375	1375	1375	No Penetration, LLC
CO33706-90						
9-25734	239.8	21.7	1416	1413	1415	No Penetration, Center
9-25735	240.2	21.7	1380	1375	1378	No Penetration, ULC
9-25736	240.9	21.7	1380	1379	1380	No Penetration, URC
9-25737	239.8	21.7	1378	1377	1378	No Penetration, LRC
9-25738	240.4	21.7	1377	1376	1377	No Penetration, LLC

Comments: Test Criteria: Test to NIJ 0108.04 Level IIIA, 44 Mag. only @ 1400 ± 50 fps.
Five impacts on a 200mm square (First shot at center).
Panels PASSED Test Specification.

Witness: Ronald Hoffman

Digitally signed by Ronald Hoffman
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 Date: 2011.12.12 11:54:46 -05'00'

Witness: _____