



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: 17 December 2008 Contract/Order No.: \_\_\_\_\_

Ambient Temperature: 70 °F Relative Humidity: 21 %

Test Panel Identification: American Glass Products (AGP) Samples C0272xx- (78, 79, 80, 81)-90  
19.75" x 19.75" x 16.25lb; Test Specifications NIJ Level 2A.

Type: Multilayer Glass Transparency, Manf.10-14-2008 Grade: Formula: L633HT

Thickness (Avg.): Nominal 0.589 inch(es) Areal Density: 6.2 lbs/sq.ft.

Projectile Caliber: .357 MAG Projectile Type: JSP, Speer 4217

Propellant Type: IMR 4227 Gun I.D.: SN: .357MagNIJLg

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

Impact Obliquity: 0 degrees File Name: 1012178a.doc

Shot Number	Weights (Grains)		Velocity Data (ft/sec)			Penetration Description
	Projectile	Propellant	No. 1	No. 2	Average	
C027278-90						
10-68546	158.9	14.6	1262	1259	1261	No Penetration, UL
10-68547	158.2	14.6	1272	1269	1271	No Penetration, UR
10-68548	158.1	14.5	1308	1307	1308	No Penetration, LR
10-68549	158.2	14.3	1317	1316	1317	No Penetration, LL
10-68550	158.0	14.0	1333	1329	1331	No Penetration, Center
C027279-90						
10-68551	158.0	13.8	1266	1259	1263	No Penetration, UL
10-68552	158.1	13.7	1274	1268	1271	No Penetration, UR
10-68553	158.0	13.7	1292	1288	1290	No Penetration, LR
10-68554	158.1	13.6	1249	1248	1249	No Penetration, LL
10-68555	158.2	13.6	1269	1268	1269	No Penetration, Center
C027280-90						
10-68556	158.1	13.6	1244	1237	1241	No Penetration, UL
10-68557	158.3	13.6	1258	1252	1255	No Penetration, UR
10-68558	158.0	13.6	1282	1278	1280	No Penetration, LR
10-68559	158.5	13.6	1257	1264	1261	No Penetration, LL
10-68560	158.0	13.6	1269	1265	1267	No Penetration, Center
C027281-90						
10-68561	158.2	13.6	1258	1257	1258	No Penetration, UL
10-68562	158.4	13.6	1242	1242	1242	No Penetration, UR
10-68563	158.3	13.6	1243	1436	1340	No Penetration, LR
10-68564	158.0	13.6	1252	1250	1251	No Penetration, LL
10-68565	158.5	13.6	1277	1271	1274	No Penetration, Center

Comments: Test Criteria: Test IAW NIJ 0108-01 "Protective Materials" Level 2A. Impacts equally spaced on a 200mm shot square. Last impact at target center. Velocity criteria is 1250 ± 50 fps.

Witness: Test Panels PASSED specification.