

Testing Definitions

a Standards:

ASTM – American Society for Testing and Materials. Test Method for Security Glazing Materials and Systems. F 1233

NIJ – National Institute of Justice, U.S. Department of Justice, Ballistic Resistant Protective Materials, NIJ Standard – 0108. 01, September 1985.

ANS/UL – American National Standards Institute/Underwriters Laboratories, Inc., Standard for Bullet-Resisting Equipment, ANS/UL 752-1985, Rev. 13 May 1988.

SD-U.S. Department of State, Ballistic Resistance of Structural Materials (Opaque and Transparent) Test Procedures and Acceptance Criteria, SD-STD-02.01, March 1986.

HPW-H.P.White Laboratory, Inc. Transparent Materials and Assemblies for Use in Entry or Containment Barriers, HPW-TP-Q 0100.00 Rev. B, December 10, 1983.

BSI-British Standards Institution, Security Glazing, Part 1. Specification for Bullet-Resistant Glazing for interior Use, BS 5051, October 1973.

DIN-Deutches Institute for Normung e.V., Security Glazing, DIN 52 290, Part 2, May 1981.

b – The various standards specify different locations to measure the bullet velocity. They are as follows: ASTM-15 ft. from weapon muzzle. ANS/UL-at muzzle; BSI-strike face of the target; DIN-8.20 ft. from weapon muzzle; HPW-15 ft. from weapon muzzle; NIJ-6.60 ft from weapon muzzle; and SD-10 ft. from strike face of the target. For meeting the various velocity measurement requirements, the use of custom (special) powder loads may be required.

c – Abbreviations:

AP Armor Piercing

HV Higher Velocity

LD Lead

LR Long Rifle

LV Lower Velocity

Mag. Magnum

Spec. Special

SRP Soft Round Point

M2, M61, M80, M193 -U.S. Military Ammunition, Full Metal Jacket, Spire Point

d – Three shots required for the base materials and twelve shots required for assemblies.

e - Minimum number of shots.

f - Minimum of three shots required for the glazing and six shots required for other parts of the assembly.

g – All ratings require the use of a shotgun in addition to the other specified weapons.

h - The shotgun is only used in an adjunct role and is non-rated weapon in this mode.