

Testing Standards

- National Institute of Justice (NIJ) Standard 0108.01- Ballistic Resistant Protective Materials
 - NIJ Level III- Protection from 5 hits from 7.62 x 51 (.308) M80 Ball @ V=2700-2800 ft/s
 - NIJ Level IV- Protection from 1 hit from 7.62 x 63 M2AP (armor piercing) @ V=2800-2900 ft/s
- MIL-STD-662F - V50 Ballistic Test for Armor - (Concept testing of armor, not certification)
- CO/PD 00-03D (section 4.9) DOD Purchase Description - Personal Armor, Small Arms Protective Insert (SAPI)
 - Section 4.9 - Ballistic Testing (utilizes clay backing, a tactical vest simulator)
- Customer Specified Testing - Customer can specify specific threat and test Procedure

Threats (depending on availability)

- 5.56 x 45MM (.223), M855 (Green Tip), FMJ, 62 Gr., Hardened Steel Core Penetrator with Lead Pusher- M 16 /M4 Rifle
- 7.62 x 39 BZ API (Armor piercing Incendiary), 118 Gr.- AK 47
- 7.62 x 39 M1943 PS Ball, FMJ, 122 Gr., Mild Steel Core Penetrator-AK 47
- 7.62 x 51 NATO M80 Ball, FMJ, 150 Gr.- M60 Machine Gun (.308)
- 7.62 x 51 AP, 147 Gr., (.308)
- 7.62 x 54R LPS Ball (Silver Tip), 150 Gr., Mild Steel Penetrator, Dragonov Sniper Round
- 7.62 x 54R API- (not in stock but available)
- 7.62 x 63 APM2 (Black Tip), 163 Gr., Tool Steel Core Penetrator
- 12.7mm (.50 cal) Ball, AP

GS Engineering, Inc (GSE) performs testing for material development purposes, not for certification. GSE can coordinate testing of different threats and certification testing at a third party test site.

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