COMPARISON OF BALLISTIC-RESISTANT BODY ARMOR STANDARDS

Why You Should Wear 0101.06-Certified Armor

JTIC Justice Technology Information Center

	National Institute of Justice (NIJ) Standard-0101.04 / 05 Interim Requirements (IR)	NIJ Standard-0101.06 / Compliance Testing Program (CTP) Requirements
Registration	• None.	• Participants required to complete Applicant Application Package (Attachment A), which provides the CTP with basic contact information for the Applicant.
Armor Submission Process	• Submission of five 1-page IR forms, brief summary of quality assurance (QA)/ traceability and document containing general construction information. • Six samples submitted: four perforation-backface signature (P-BFS), one ballistic limit (BL) with no pass/fail requirement, one spare. All samples sent directly to the CTP for initial inspection. • All armor sized according to a single template. • CTP conducts labeling and workmanship inspection and sends to laboratory.	• Attachment B (model-specific information that includes a detailed Build Sheet) completed by the Applicant and approved by the CTP prior to submission. • CTP issues Test ID to Applicant. Applicant sends 28 samples directly to the laboratory: - New: Eight BFS, 10 BL, two spare. - Conditioned Armor: Four BFS, four BL. • Armor submitted in a size range according to templates C1-C5. • Laboratory conducts workmanship and label inspections.
Testing Process	• Laboratory conducts P-BFS and BL testing. • Armor subjected to P-BFS testing placed in a spray chamber for six minutes, three minutes on each side. • No pass/fail criteria for BL. • Shot-to-edge requirement for shots 1-3 is 3 inches. • Shots 4-6 evenly distributed on the center part of the panel with two 30-degree shots (4&5). • Type of ammunition specified by the standard. Any manufacturer is acceptable. • Carrier construction not specified.	• New standard includes revised threat rounds and velocities for threat levels. • Laboratory conducts label, P-BFS and BL tests, and conditions armor samples for P-BFS and BL testing. • Non-conditioned armor submerged in water for 30 minutes followed by 10-minute drying time. • BL pass/fail criteria: no perforation at or below NIJ reference velocity. • Each panel impacted with six valid shots. Threat one requirement is 2 inches from the edge for shots 1-3. Shots 4-6 must impact within a 4-inch circle near the center of the panel. In addition to a 30-degree angled shot, a 45-degree angled added as part of either shot 4 or 5. • Ammunition type and manufacturers specified by the standard to ensure more consistent testing. • Armor conditioned for a 10-day period. During this 10-day period, heat and humidity cycled during each 24-hour period. • Armor carrier specified as poly/cotton to ensure consistent testing.
CTP Inspection	• CTP inspects all samples submitted for testing and reviews Compliance Test Report (CTR) for accuracy. • Review conducted by CTP.	• CTP inspects two or more samples tested by the laboratory and compares samples with laboratory build description of armor and manufacturer's supplied Build Sheet. • CTP reviews CTR for accuracy through a newly established review process that ends with an NIJ compliance decision.
Follow-up Inspection and Testing (FIT)	• None	• Applicant must agree to participate in the Conformity Assessment Program.
NIJ-Approved Laboratories	• Application and site visit by CTP team.	• Required National Voluntary Laboratory Accreditation Program accreditation to IEC/ISO 17025. • Required Application to the CTP for NIJ approval.
Review/Appeal/ Compliant Process	• Reviewed by NIJ.	• Established Special Review Committee of independent experts from various disciplines.

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