



Designation: E3108 – 18

# Standard Practice for Conformity Assessment of Protective Gloves Worn by Law Enforcement and Corrections Officers<sup>1</sup>

This standard is issued under the fixed designation E3108; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This practice establishes the conformity assessment requirements for protective gloves worn by law enforcement and corrections officers. It was developed based on end user input regarding hazards of concern and operational requirements of officers.<sup>2</sup>

1.2 This practice provides two options for conformity assessment: (1) supplier's declaration of conformity (SDOC) and (2) certification.

1.2.1 This practice is intended to be used by purchasers and suppliers in the procurement of gloves that meet Specification E3109, and the purchaser is responsible for selecting either SDOC or certification.

NOTE 1—An ASTM guide is being developed to provide agencies and end users with information related to the selection, procurement, and use of protective gloves worn by law enforcement and corrections officers while on duty.

1.2.2 The performance, testing, labeling, documentation, and reporting requirements for SDOC and for certification are specified in Specification E3109.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee E54 on Homeland Security Applications and is the direct responsibility of Subcommittee E54.04 on Personal Protective Equipment (PPE).

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<sup>2</sup> Guide F3050 provides considerations for performing a risk assessment.

## 2. Referenced Documents

### 2.1 ASTM Standards:<sup>3</sup>

NOTE 2—For dated references, only the edition cited applies to prevent unanticipated changes in test method procedures. For undated references, the latest edition of the referenced document applies, including any amendments.

- E3109 – 18 Specification for Protective Gloves Worn by Law Enforcement and Corrections Officers
- F1494 – 14 Terminology Relating to Protective Clothing
- F3050 – 17 Guide for Conformity Assessment of Personal Protective Clothing and Equipment

### 2.2 ISO/IEC Standards:<sup>4</sup>

- ISO 9000 Quality Management Systems – Fundamentals and Vocabulary
- ISO 9001 Quality Management Systems – Requirements
- ISO/IEC 17000 Conformity Assessment – Vocabulary and General Principles
- ISO/IEC 17011 Conformity Assessment – General Requirements for Accreditation Bodies Accrediting Conformity Assessment Bodies
- ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories
- ISO/IEC 17050-1 Conformity Assessment – Supplier's Declaration of Conformity – Part 1: General Requirements
- ISO/IEC 17050-2 Conformity Assessment – Supplier's Declaration of Conformity – Part 2: Supporting Documentation
- ISO/IEC 17065 Conformity Assessment – Requirements for Bodies Certifying Products, Processes, and Services

## 3. Terminology

### 3.1 Definitions:

<sup>3</sup> For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>4</sup> Available from International Organization for Standardization (ISO), ISO Central Secretariat, BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland, <http://www.iso.org>.

3.1.1 *accreditation, n*—third-party attestation related to a conformity assessment body conveying formal demonstration of its competence to carry out specific conformity assessment tasks. **ISO/IEC 17000**

3.1.2 *audit*—systematic, independent, documented process for obtaining records, statements of fact or other relevant information and assessing them objectively to determine the extent to which specified requirements are fulfilled. **ISO/IEC 17000**

3.1.3 *certification, n*—a system whereby a third party independent organization determines that a supplier has demonstrated the ability to make a product that complies with the requirements of the specification, authorizes the supplier to use a label on products that comply with the requirements of the specification, and conducts a follow-up surveillance program to verify the methods the supplier uses to determine conformance with the requirements of the specification. **Terminology F1494**

3.1.4 *certification body, n*—third-party conformity assessment body operating certification schemes and attesting to the conformity of products.

3.1.4.1 *Discussion*—A certification body can be non-governmental or governmental (with or without regulatory authority), and can also be known as a certification organization.

3.1.5 *certified product, n*—any product that has successfully been tested and found to conform by an appropriately accredited certification body.

3.1.6 *certified product listing*—a publicly accessible listing of certified products.

3.1.7 *conformity assessment, n*—demonstration that specified requirements relating to a product, process, system, person, or body are fulfilled. **ISO/IEC 17000**

3.1.8 *evaluation, n*—determination of the significance or condition by careful appraisal and study.

3.1.9 *inspection, n*—examination of a product design, product, process or installation and determination of its conformity with specific requirements or, on the basis of professional judgment, with general requirements. **ISO/IEC 17000**

3.1.10 *listed, adj*—included in a publicly accessible list published by an accredited certification body.

3.1.11 *model, n*—the manufacturer’s design, with unique specifications and characteristics, of a particular item.

3.1.12 *product, n*—one unit of a particular model.

3.1.13 *supplier, n*—the entity that directs and controls the following: conformant product design, conformant product manufacturing, conformant product quality assurance; or the entity that assumes the liability for the conformant product or provides the warranty for the conformant product.

3.1.14 *supplier’s declaration of conformity (SDOC), n*—the declaration by which a first party or supplier conveys assurance that the object of conformity fulfills specified requirements. **ISO/IEC 17000**

3.1.15 *surveillance, n*—systematic iteration of conformity assessment activities as a basis for maintaining the validity of the statement of conformity. **ISO/IEC 17000**

3.1.16 *third-party, n*—independent of the person or organization that provides the product and of the user interests in that object.

3.1.17 *third-party certification, n*—conformity assessment activity that is performed by a person or body that is independent of the person or organization that provides the object and of user interests in that object.

#### 4. Supplier’s Declaration of Conformity

4.1 This section specifies requirements that apply when the option of supplier’s declaration of conformity (SDOC) is selected.

4.2 The supplier shall provide an SDOC that meets the minimum requirements of ISO/IEC 17050-1 and Specification E3109. The SDOC shall include:

4.2.1 Identification of what the declaration covers (for example, model description; inspection, audit, and testing).

4.2.2 Identification of applicable standard that the declaration is based on.

4.2.3 Date and place of issue of the declaration of conformity.

4.2.4 Any limitation on the validity of the declaration.

4.3 The supporting documentation for the SDOC shall meet the minimum requirements of ISO/IEC 17050-2 including:

4.3.1 A description of the object of the SDOC.

4.3.2 The conformity assessment results such as description of the method used to determine conformity, the actual results, and records on the evaluation of those results which led to the declaration of conformity.

4.3.3 A test report, such as the example shown in **Appendix X1**. The supplier shall maintain a copy of the test report in its records management system.

4.4 Any material configuration changes that impact the performance of the model shall require re-testing of the model.

4.5 The supplier shall be responsible for having the testing done.

NOTE 3—Testing may be done by the manufacturer, by the supplier, or by a third-party laboratory.

4.6 The supplier shall only claim compliance with the portions of Specification E3109 that are met by the glove model.

#### 5. Product Certification

5.1 This section specifies requirements that apply when the option of certification is selected.

5.2 The certification body shall assess glove models for conformance with Specification E3109.

5.2.1 The certification body shall provide a certification report that includes the documentation and labeling information specified in Specification E3109.

5.3 The certification body shall assign distinct certification identification for each model of glove certified.