



**ANSI/ISEA**

**207-2011**

## American National Standard for High-Visibility Public Safety Vests

**ANSI/ISEA 207-2011**  
**Revision of ANSI/ISEA 207-2006**

# **American National Standard for High-Visibility Public Safety Vests**

Secretariat  
**International Safety Equipment Association**

Approved October 17, 2011  
**American National Standards Institute, Inc.**

**American  
National  
Standard**

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Published by

**International Safety Equipment Association (ISEA)  
1901 North Moore Street, Suite 808, Arlington, Virginia 22209**

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Printed in the United States of America

**Foreword** (This Foreword is not part of American National Standard ANSI/ISEA 207 -2011)

ANSI/ISEA 207-2011 represents the second iteration of the consensus industry standard on high-visibility public safety vests. The document was first published in 2006 and developed with the understanding that competing hazards exist for public safety employees who also need to be seen by vehicle operators. The need for such a document to address visibility as a hazard was identified by the National Traffic Incident Management Coalition (NTIMC), whose members represent the public safety industry and with whom ISEA worked closely to ensure that features important to the public safety sector are established.

The 2009 revision to the Manual on Uniform Traffic Control Devices (MUTCD) mandated that workers in any roadway right-of-way wear high-visibility apparel, and allowed emergency/incident response and law enforcement personnel in traffic control areas to wear ANSI/ISEA 207 compliant vests in lieu of garments compliant with and labeled to ANSI/ISEA 107, *American National Standard for High-Visibility Safety Apparel and Headwear*.

This new edition of ANSI/ISEA 207 includes clarification and improvements related to designs incorporating identification panels, logos and lettering, which are important to the public service community. The revised standard also provides useful service life guidelines for high-visibility garments by incorporating those that have been established by the Federal Highway Administration.

This revision was prepared by members of the High Visibility Products Group of the International Safety Equipment Association (ISEA). The following companies were members of the group at the time of the approval of the standard:

5.11 Tactical Apparel  
Avery Dennison  
Blauer Manufacturing  
ERB Industries  
Ergodyne  
Honeywell Safety Products  
Kimberly-Clark Corporation  
M.L. Kishigo Manufacturing  
Lakeland Industries  
3M Company  
MCR Safety  
MSA

NASCO Industries  
OccuNomix International  
OK-1 Manufacturing  
Pacific Safety Supply  
Radians Inc.  
Reflexite North America  
Safe Reflections  
I. Spiewak & Sons  
Tingley Rubber  
VizCon  
White Knight Engineered Products

This standard was processed and approved using consensus procedures prescribed by the American National Standards Institute. The following organizations were contacted prior to the approval of this standard. Inclusion in this list does not necessarily imply that the organization concurred with the submittal of the proposed standard to ANSI.

Baldi Brothers  
City of Pittsburgh Public Safety  
Froh Safety  
Iowa Department of Transportation  
International Safety Equipment Association  
National Association of State EMS Officers  
National Committee on Uniform Traffic Control Devices  
New York State Police

Orange County Fire Authority  
RMS-Safety  
Sacramento Metropolitan Fire Department  
Saf-T-Glove  
Safety Equipment Institute  
Streicher's  
Texas Transportation Institute  
Vartest Laboratories

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# American National Standard for High-Visibility Public Safety Vests

## 1. Scope

This standard specifies performance requirements for high-visibility vests for use by public safety workers. High visibility public safety vests are intended to provide conspicuity of the user in hazardous situations under any light conditions by day and under illumination by vehicle headlights in the dark.

Performance requirements are included for color, retroreflection, and minimum areas, as well as the suggested configuration of highly visible materials used in the construction of high-visibility public safety vests. Test methods are provided in the standard to ensure that a minimum level of visibility is maintained when items are subjected to ongoing care procedures.

Performance requirements for optional features are included in Section 6.

## 2. Purpose

Conspicuity is enhanced by high contrast between the vest ambient background and the work environment. This standard provides performance requirements of conspicuous materials to be used in high-visibility public safety vests and specifies minimum areas and placement of the materials.

This standard specifies minimum amounts of retroreflective materials, colors and placement of materials, for vests used to enhance the visibility of public safety workers.

## 3. Compliance

**3.1** Background materials shall be certified to verify performance to the requirements as specified in Sections 7 and 9 of this standard. The form in Appendix C1 shall be used.

**3.2** Combined-performance materials shall be certified to verify performance to the requirements as specified in Sections 7.1.1, 7.1.2, 8 and 9 of this standard. The form in Appendix C2 shall be used.

**3.3** Retroreflective materials shall be certified to verify performance to the requirements as specified in Sections 8 and 9 of this standard. The form in Appendix C3 shall be used.

**3.4** All certificates and test reports that verify the performance of materials used in manufacturing the finished vest shall be retained by the manufacturer and be made available to ensure that all items labeled as meeting this standard have completed all of the testing and certification required by the standard.

**3.5** Manufacturers of the finished vest shall certify or self-certify compliance that all vest design requirements are achieved to meet requirements of Section 5.1 in their entirety. The Compliance Certificate in Appendix C4 shall be used. The compliance certificate shall be developed for all models produced by each company.

**NOTE:** Appendix C contains the certificates to be used for certification / self-certification of the high visibility vest, retroreflective, and background materials. All forms are available for download in Adobe Acrobat format on [www.safetysafetyequipment.org](http://www.safetysafetyequipment.org).

## 4. Definitions

**Accredited laboratory:** A laboratory having a certificate of accreditation meeting the requirements of ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories* (or other equivalent