



The American National Standard for High-Visibility Safety Apparel and Headwear (ANSI/ISEA 107-2004) is a standard established by American National Standards Institute, Inc. (ANSI) and the International Safety Equipment Association (ISEA).

Construction, utility, police, emergency medical services, fire fighters, road workers, flaggers and airport ramp workers are routinely exposed to the hazards of low visibility while on the job. This standard provides guidelines for the selection and use of high-visibility safety vests to improve worker visibility during the day, in low-light conditions and at night.

ANSI / ISEA 107-2004 guidelines are divided into 3 classes according to the level of risk present in the working environment:

### CLASS 1:

- For workers in occupations that permit full and undivided attention to approaching traffic.
- When work backgrounds are not complex.
- When pedestrian workers are separated from traffic.

#### APPLICATIONS:

Parking lot attendants  
Shopping cart retrievers  
Warehouse workers  
Delivery vehicle drivers

#### CLASS 1 Minimum Requirements

Background Fabric	217 Square Inches
Reflective Material	155 Square Inches
Minimum Reflective Width	1 Inch

### CLASS 2:

- For workers who require greater visibility under inclement weather conditions.
- When work backgrounds are complex.
- When tasks divert attention from approaching vehicle traffic.

#### APPLICATIONS:

Roadway Construction Workers  
Utility Workers  
Survey Crews  
Railroad Workers  
School Crossing Guards  
Airport Baggage Handlers  
Law Enforcement Personnel  
Emergency Response Personnel

#### CLASS 2 Minimum Requirements

Background Fabric	775 Square Inches
Reflective Material	201 Square Inches
Minimum Reflective Width	1.375 Inch



### CLASS 3:

- For workers and vehicle operators whose high task loads place them in danger.
- When wearer must be conspicuous through the full range of body motions at a minimum of 1,280 ft.
- When wearer must be identifiable as a person.

#### APPLICATIONS:

Roadway Construction Workers  
Utility Workers  
Survey Crews  
Emergency Service Personnel

#### CLASS 3 Minimum Requirements

Background Fabric	1240 Square Inches
Reflective Material	310 Square Inches
Minimum Reflective Width	2 Inches



# Non-Compliant

## Examples of Non-Compliant Designs:

Not all hi-viz safety vests on the market are ANSI Compliant. Below are a few examples of designs that are non-compliant and do not meet the safety standards set by ANSI / ISEA.



No Reflective Trim

No Hi-Viz Garmets Being Worn

Open Plastic Mesh



Open or ties at the sides

## FHWA Federal Rule:

In order to improve highway worker safety, the FHWA Federal Rule states that ANSI Class 1 and NON-ANSI garments are no longer acceptable for all workers who are within the Federal-aid highway right-of-way. They must wear an ANSI Class 2 or Class 3 garment.

Each year more than 100 workers are killed and over 20,000 are injured in the highway and street construction industry. The FHWA believes that this rule will improve visibility of workers within the Federal-aid highway right-of-way, thereby reducing these numbers.

# Care Labeling

## Care Labeling, General Marking and Instructions for Use:

Once all materials have been tested against performance requirements and certificates of compliance from a third party testing laboratory have been issued, apparel manufacturers then assemble garments according to the design guidelines of the standard for the appropriate class of garment.

Only after all the materials' performance and design requirements have been met, can a garment be labeled ANSI/ISEA 107-2004 compliant. Garment labeling, general marking and instructions for use are described in Sections 10 to 12 of the standard.

## Marking includes the following information:

- Name, trademark, or other means of identifying the manufacturer or authorized representative.
- Designation of the product type, commercial name or code.
- Size designation.
- Number of this specific ANSI/ISEA standard (ANSI/ISEA 107-2004).
- Pictogram showing the garment Class and Level of performance for the reflective material.
- Care labeling with FTC symbols and maximum cycles for the cleaning process.

ANSI/ISEA 107-2004  
Class 3  
Level 2

# SV83GS M

Bar Code

**100% POLYESTER**

Washing Instructions:

Machine Wash, Cold  
No Bleach  
Tumble Dry Low  
Do Not Dry Clean  
Do Not Iron

Max 25 Cycles  
Made in China  
Third Party Certified