

UNDERSTANDING THE ANSI STANDARD

The ANSI / ISEA 107-2015 is the new standard for approved High-Visibility gear. These classes are based on hazards on the job site, based on complexity, vehicular traffic, and speed.

All compliant hi-vis safety apparel must be balanced in design, with specific material requirements to meet the standard. No less than 40% of the minimum required reflective and background material has to be present on both the front and back of the garment, ensuring visibility from the front and back.

REQUIRED MARKINGS



- Manufacturers name
- Item Number
- Size
- ANSI / ISEA Standard including year
- Indication of compliance of flame resistance
- If not flame resistant, must show: "This garment is not flame resistant as defined by ANSI / ISEA 107-2015"
- Pictogram showing garment type, class, and level of reflective performance
- Maximum number of wash processes (i.e.: Max 50.)

PERFORMANCE CLASSES



Class 1 (Type O Only): Provides minimum amount of hi-vis material required to differentiate worker visually from backgrounds around non-complex work environments. These garments are considered "Non-ANSI apparel".



Class 2 (Type R & P): These provided additional hi-vis materials and may allow design opportunities to define the human form more effectively. Class 2 garments typically provide longer detection and identification distances, and increased conspicuity performance compared to Class 1. They are required when working near roadways where traffic speeds exceed 25 mph.

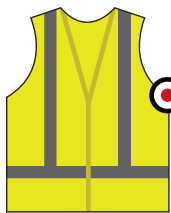


Class 3 (Type R & P): These offer greater visibility to the wearer in both complex backgrounds through a full range of body movements. Mandatory placement requirements for background, retroreflective and combined-performance materials on sleeves and pant legs. They are required when working near traffic speeds in excess of 50 mph. Sleeveless garments or vests are never considered Class 3.



Class E: Supplemental apparel such as bibs, shorts, and gaiters, which are not compliant when worn alone, though, when combined with Class 2 or Class 3 apparel, the combination satisfies the Class 3 requirements.

GARMENT CATEGORIES



Type O - "Off Road"
Meant for off-road applications. This level of garment provides added visibility to workers who are not working around traffic. This level of Hi-Vis is common for parking lot attendants.



Type R - "Roadway"
These garments provide enhanced visibility for workers exposed to common highway traffic, working in more complex daytime and nighttime environments. This includes working in proximity to highway traffic, roadway temporary traffic control (TTC) zones, or from work vehicles and construction equipment within TTC zones.



Type P - "Public Safety"
This level of garment category is for emergency and incident responders, including law enforcement personnel. The standard requires less fluorescent background material to easily identify and distinguish personnel. It also permits shorter garments to make tactical access easier.

FABRIC & REFLECTIVE REQUIREMENTS BY TYPE & CLASS

GARMENT TYPE DESIGNATION	TYPE R			TYPE P	
	TYPE O	Class 2	Class 3	Class 2	Class 3
PERFORMANCE CLASS	Class 1	Class 2	Class 3	Class 2	Class 3
BACKGROUND MATERIAL AMOUNTS	217 in ²	775 in ²	1,240 in ²	450 in ²	775 in ²
REFLECTIVE MATERIAL AMOUNTS	155 in ²	201 in ²	310 in ²	201 in ²	310 in ²
WIDTH MINIMUMS OF REFLECTIVE MATERIAL	1"	1.38"	2"	2"	2"