



Scotchlite™
Reflective Material

ANSI/ISEA 107-2015 Overview

April 2016

ANSI/ISEA 107-2015 History

American National Standard For High-Visibility Safety Apparel

- First edition issued in June 1999
- Based on EN 471:1994
- Developed by committee with ISEA
 - International Safety Equipment Association
- First U.S. standard to address low worker visibility as occupational hazard during the day, in low-light conditions, and at night
- Revised approx. every 5 years
- ANSI/ISEA 107-2015 was released February 1, 2016



ANSI/ISEA 107 – 2015 Revisions from 2010 Version

New Type Designations

Type O

Off-road & Non-Roadway Use

Class 1



Former ANSI/ISEA 107 Class 1

Type R

Roadway & Temporary Traffic Control Zones

Class 2 and 3



Former ANSI/ISEA 107 Class 2 & 3

Type P

Emergency and incident Responders and Law Enforcement Personnel

Class 2 and 3



Former ANSI/ISEA 207

- Additional garment options, and Class 3

Choosing a Type



Type O

Off-road & Non-roadway Use

- Class 1
- Formerly ANSI/ISEA 107-2010 Class 1
- Target: Mining, Oil and Gas, not required to comply to a standard



Type R

Roadway & Temporary Traffic Control Zones

- Class 2 and 3
- Formerly ANSI/ISEA 107-2010 Class 2 & 3
- Target: Public roadways, construction, require compliance with MUTCD



Type P

Emergency & Incident Responders & Law Enforcement Personnel

- Class 2 and 3
- Formerly ANSI/ISEA 207-2011
- Target: Law enforcement, first responders, fire

Garment Type	Type "O"	Type "R"		Type "P"		Supplemental Items	Accessories		
Designation	Off-road	Roadway		Fire, Police, EMS Personnel		Garments with Legs, including Gaiters	Gloves	Arm or Leg Bands	Headwear
Performance Class	Class 1	Class 2	Class 3	Class 2	Class 3	Class E	NA	NA	NA
Background Material Amounts	217 in ²	775 in ²	1240 in ²	450 in ²	775 in ²	465 in ²	10 in ²	24 in ²	78 in ²
Retroreflective Material Amounts	155 in ²	201 in ²	310 in ²	201 in ²	310 in ²	109 in ²	10 in ²	24 in ²	10 in ²
Width Minimums of Retroreflective Material	1"	1.38" 1" for split trim designs	2" 1" for split trim designs	2" 1" for split trim designs	2" 1" for split trim designs	2" 1" for split trim designs	1"	1"	1"
Previous Standard and Class	ANSI 107 Class 1	ANSI 107 Class 2	ANSI 107 Class 3	ANSI 207	NEW!	ANSI 107 Class E	NEW!	NEW!	Headwear



Logos, ID Panels, and Lettering

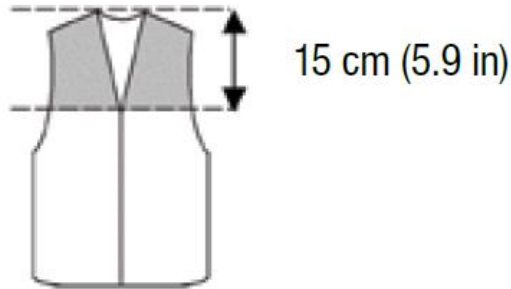
When adding logos, ID panels, and lettering:

- Can cover up to 72 in² of the minimum amount of background material
- Can cover up to 22 in² of the minimum amount of retroreflective material
 - No gaps in retroreflective material greater than 1.97” horizontally.



Class 1 and 2 Shoulder Area Requirements

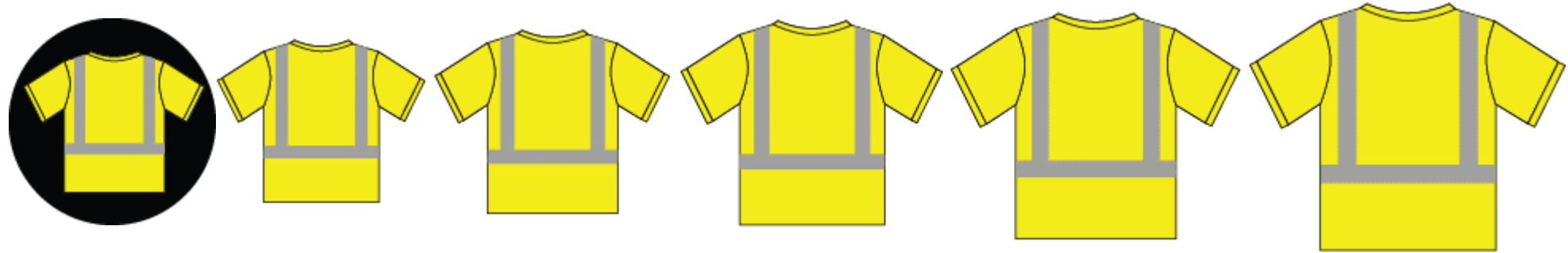
Shoulder Area Definition



If Class 1 and 2 garments (all types) do not have reflective encircling the sleeves they must:

- Have at least 23.25 in² of reflective material in the shoulder area
- Shoulder area is 5.9” down from the shoulder high point (front and back total)
- Class 3 garments must always have reflective on the sleeves, so shoulder area reflective is optional.

Allowing for smaller sizes



- For Type R garments only
- Class 2
 - Smallest size in size range may have a minimum of 540 in² of background material
- Class 3
 - Smallest size in size range may have a minimum of 1000 in² of background material

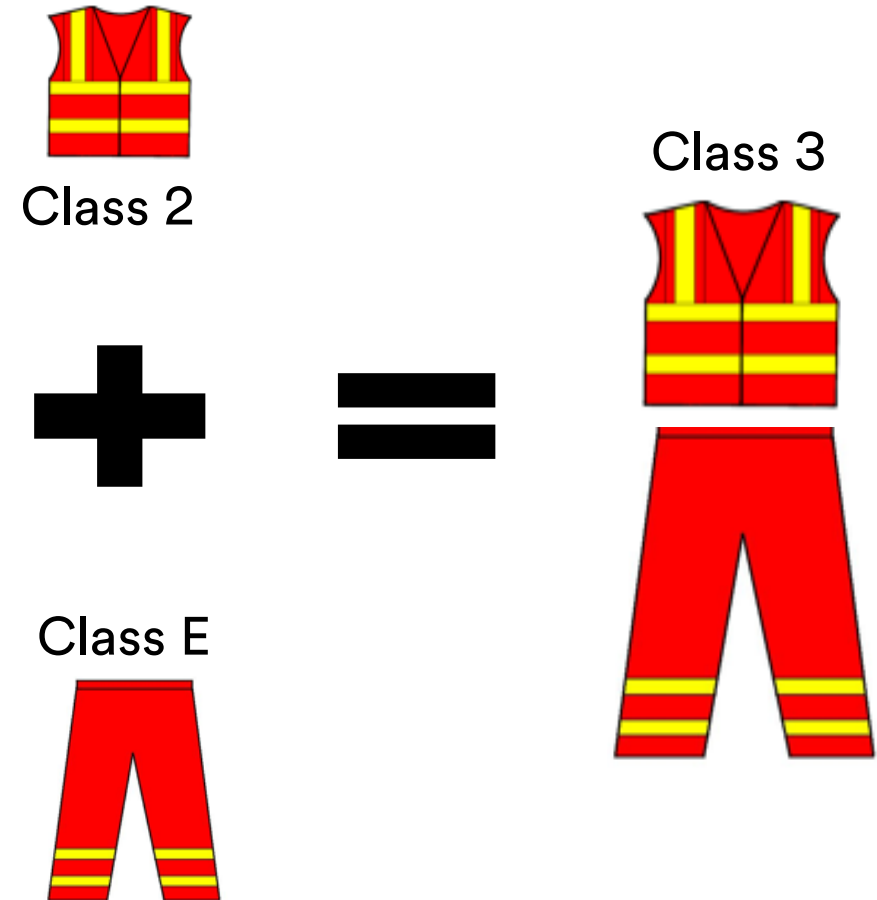
NOTE:

- NO deduction in retroreflective allowed
- All larger sizes must meet the regular minimums

ANSI/ISEA 107 Garment Class E

	Pants, Gaiters, Overalls, Shorts and Rain Pants
Performance Class	Class E*
Background Material	465 in ²
Retroreflective Materials	109 in ²
Minimum Width Reflective	2 inches (1 inch for split trim design only)

- Class E garments do not meet ANSI/ISEA 107-2015 when worn alone
- Can be worn with Class 2 to make Class 3
- A pair of gaiters can now be certified Class E





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Thank you!

Updated: March 2016