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

Slides discuss only selected aspects of ANSI 107-2015. See www.safetyequipment.org for complete version.
### ANSI/ISEA 107 – 2015 Revisions from 2010 Version

#### New Type Designations

<table>
<thead>
<tr>
<th><strong>Type O</strong></th>
<th><strong>Type R</strong></th>
<th><strong>Type P</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Off-road &amp; Non-Roadway Use</td>
<td>Roadway &amp; Temporary Traffic Control Zones</td>
<td>Emergency and incident Responders and Law Enforcement Personnel</td>
</tr>
<tr>
<td>Class 1</td>
<td>Class 2 and 3</td>
<td>Class 2 and 3</td>
</tr>
</tbody>
</table>

*Former ANSI/ISEA 107 Class 1*  
*Former ANSI/ISEA 107 Class 2 & 3*  
*Former ANSI/ISEA 207*

- Additional garment options, and Class 3

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Choosing a Type

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

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

Emergency & Incident Responders & Law Enforcement Personnel
- Class 2 and 3
- Formerly ANSI/ISEA 207-2011
- Target: Law enforcement, first responders, fire

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<table>
<thead>
<tr>
<th>Garment Type</th>
<th>Type &quot;0&quot;</th>
<th>Type &quot;R&quot;</th>
<th>Type &quot;P&quot;</th>
<th>Supplemental Items</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designation</td>
<td>Off-road</td>
<td>Roadway</td>
<td>Fire, Police, EMS Personnel</td>
<td>Garments with Legs, including Gaiters</td>
<td>Gloves, Arm or Leg Bands, Headwear</td>
</tr>
<tr>
<td>Performance Class</td>
<td>Class 1</td>
<td>Class 2</td>
<td>Class 2</td>
<td>Class E</td>
<td>NA, NA, NA</td>
</tr>
<tr>
<td>Background Material Amounts</td>
<td>217 in²</td>
<td>775 in²</td>
<td>1240 in²</td>
<td>450 in²</td>
<td>775 in²</td>
</tr>
<tr>
<td>Retroreflective Material Amounts</td>
<td>155 in²</td>
<td>201 in²</td>
<td>310 in²</td>
<td>201 in²</td>
<td>310 in²</td>
</tr>
<tr>
<td>Width Minimums of Retroreflective Material</td>
<td>1&quot;</td>
<td>1.38&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>Previous Standard and Class</td>
<td>ANSI 107 Class 1</td>
<td>ANSI 107 Class 2</td>
<td>ANSI 107 Class 3</td>
<td>ANSI 207</td>
<td>NEW!</td>
</tr>
</tbody>
</table>

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Logos, ID Panels, and Lettering

When adding logos, ID panels, and lettering:

• Can cover up to 72 in$^2$ of the minimum amount of background material
• Can cover up to 22 in$^2$ of the minimum amount of retroreflective material
  • No gaps in retroreflective material greater than 1.97” horizontally.

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Class 1 and 2
Shoulder Area Requirements

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

• Have at least 23.25 in\(^2\) 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.

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Allowing for smaller sizes

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

NOTE:
- NO deduction in retroreflective allowed
- All larger sizes must meet the regular minimums
### ANSI/ISEA 107 Garment Class E

<table>
<thead>
<tr>
<th>Performance Class</th>
<th>Class E*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background Material</td>
<td>465 in²</td>
</tr>
<tr>
<td>Retroreflective Materials</td>
<td>109 in²</td>
</tr>
<tr>
<td>Minimum Width Reflective</td>
<td>2 inches (1 inch for split trim design only)</td>
</tr>
</tbody>
</table>

- 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