



# Quick Check Guidelines for ANSI/ISEA 107–2010 Class 2 Garments

## Vest Configurations



Examples of compliant designs

As a standard for total garment design, ANSI/ISEA 107-2010 requires:

- Garment fabric must be fluorescent
  - Red/orange or
  - Lime/yellow
- It must have 201 in.<sup>2</sup> of retroreflective trim and 775 in.<sup>2</sup> of fluorescent background material.
- Reflective trim must provide 360° visibility – with horizontal gaps of 50 mm or less.
- Garments without reflective on the sleeves must have 23.25in<sup>2</sup> of reflective material in the shoulder area.
- Flame resistant garments must also comply with ASTM F-1506, ASTM F1891-06, ASTM F2302-08 or ASTM F2733-09.

## Apparel Configurations



T-shirt

T-shirt

Polo

Polo

Windbreaker

Raingear

Examples of compliant designs. Jackets are Class 3.

Above items represent many, but not all “compliant” scenarios.

## Examples of Non-Compliant Designs



These items represent many, but not all “non-compliant” scenarios.

## What ANSI 107 Garment Class does MUTCD 2009 require?



For all workers, including emergency responders, within the right-of-way who are exposed either to traffic or to work vehicles and construction equipment within a Temporary Traffic Control zone, MUTCD 2009 Section 6D.03 requires Class 2 or Class 3 garments of ANSI-107- 2004 or equivalent revisions, such as ANSI 107-2010, if labeling requirements are met. Specific alternative options for emergency and incident responders and law enforcement personnel are included in 6D.03 paragraph 05 and paragraph 08. For Flaggers, Section 6E.02 requires ANSI 107-2004 Class 2 or 3.

### When in Doubt: Look in the garment for the ANSI/ISEA 107-2004 and 2010 label

FR garments should  
include FR standard

Label to include  
Garment Care Guide

This summary does not represent  
official, legal, or complete interpretations  
of the standard. If specific questions  
arise, the standards themselves should  
be referred to and relied upon.

XYZ Manufacturer ANSI/ISEA 107-2010 and ANSI/ISEA 107-2004 100% Polyester 3M™ Scotchlite™ Reflective Material Model #: Hi Vis Vest Size: Large	← Should identify vest maker and that it meets both ANSI/ISEA 107-2004 and 107-2010
	Class 2 Level 2 ← Must identify design class and brightness level
FR- ASTM F1506-08 Washing Instructions  Wash warm Max 25 cycles Do not bleach Tumble dry low Do not iron Do not dry clean	



### Occupational Health and Environmental Safety Division 3M Protective Apparel and Footwear Market Center

3M Center, Building 0235-02-F-06  
St. Paul, MN 55144-1000  
800-328-7098  
Scotchlite.com

### 3M Canada

P.O. Box 5757  
London, Ontario N6A 4T1  
800-267-4414 Technical Service  
800-364-3577 3M HELPS  
3M.com/ca/besaferbeseen

3M and Scotchlite are trademarks of 3M.  
Please recycle. Printed in U.S.A.  
© 3M 2010. All rights reserved.  
XX-XXXX-XXXX