

Technical Bulletin

3M™ Scotchlite™ Reflective Material

Topic: ANSI/ ISEA 107-2010 Standard Update

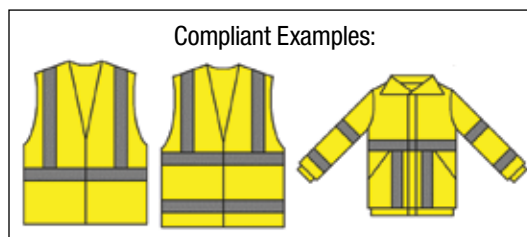
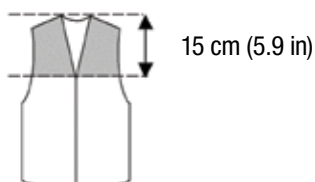
The ANSI 107-2010 version was issued in January of 2010. Copies are available for purchase from the ISEA (<https://www.safetysupply.com/profile-acct/index.cfm?action=store.main>). The following information summarizes some notable changes to ANSI 107-2010, but not all changes. You should obtain a copy of the standard and refer to it for more detailed information.

Highlights of Notable Changes are as follows:

New design requirements:

Garments without reflective material encircling the sleeves, are now required to have a minimum of 150 cm² (23.25 in²) of reflective material in the shoulder area, to provide 180° visibility of the wearer. Shoulder area is defined as measuring 15 cm (5.9 in) down from the shoulder high point, on the front and back of the garment.

Shoulder Area Definition



Non-compliant Example:



In addition to the shoulder area changes, a split trim picture was added to Appendix C for clarification, and to emphasize that Section 6.1.1.1 allows for split trim configurations. Requirement for a band around the torso for bib overalls was deleted.

New Flame Resistance Requirements and labeling requirements:

Section 9.5 was added to provide clarification on garments marketed as flame resistant and compliant to ANSI 107-2010. Garments that are labeled as flame resistant must also be compliant with at least one of the following standards in its entirety: ASTM F1506-08, ASTM F1891-06, ASTM F2302-08 or ASTM F2733-09. The garment label is required to have the letters "FR" followed by the ASTM standard that it meets. For example, for a garment meeting ASTM F 1506-08, the label would include the words "FR ASTM F1506-08".

Garments that are also separately third party certified to NFPA 1971, NFPA 1977 or NFPA 2112, can also be labeled as ANSI 107-2010 if they have the required amounts of compliant fluorescent background material and reflective materials.

Garments that can only meet NFPA 701, for example, are no longer allowed to be labeled as flame resistant together with ANSI 107-2010.

New allowances for Rainwear:

Rainwear can now be separately certified and marketed as water repellent, water proof, and/or water resistant. It is no longer required to meet all three definitions.

Background and Combined Performance Requirements, Section 7:

Table 2 now contains the color requirement for both combined performance and background materials. The xenon color fastness test is now the same for both background and combined performance materials, regardless of color.

Additional Service Life Guidelines, Section 12.2:

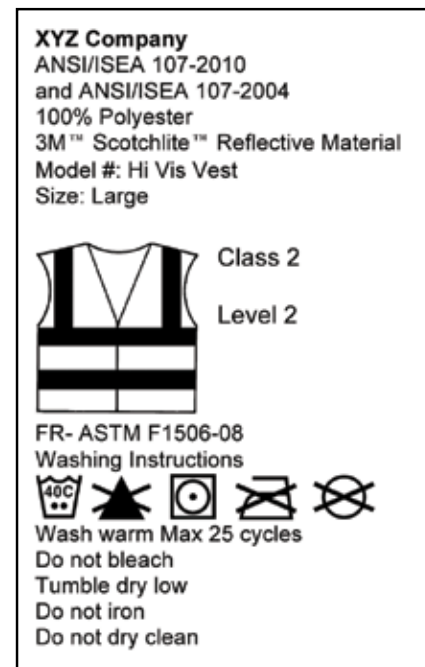
An issuing entity is defined as the organization giving the garment to the worker, for example, a DOT or private employer, (not a garment manufacturer or certification body). This organization is directed to periodically evaluate the minimum required

visibility performance of garments in terms of background material, retroreflective or combined performance materials, and general fit and state of garment. Appendix E cites the U.S. Federal Highway Administration recommendation that the useful life of garments worn daily is 6 months, and the useful service life of garments not worn on a daily basis is up to 3 years. Actual life times will vary depending on exposure and care conditions, and could range from weeks to years.

Frequently Asked Questions

How does MUTCD 2009 require ANSI 107 garments to be labeled?

MUTCD section 6D.03, addressing worker safety, allows for ANSI 107-2004 or equivalent revisions, however currently requires garments to be labeled as ANSI 107-2004. Section 6E.02, addressing flaggers, and Section 7D.04, addressing crossing guards, cite ANSI 107-2004 only. Until further guidance and clarification is given by Federal Highway, we recommend that garments which are compliant to both versions have “Compliant to ANSI 107-2004 and ANSI 107-2010” on the label.



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