

# NEW HIGH VISIBILITY SAFETY APPAREL STANDARDS EFFECTIVE 2016

## New ANSI/ISEA 107-2015 Standard for High Visibility Apparel Made Simple

Low visibility is a serious hazard for all workers who perform tasks near moving vehicles or equipment. High visibility safety apparel by Majestic boldly intensifies worker visibility and safety. The new ANSI/ISEA 107-2015 high visibility safety apparel standard consolidates the requirements of ANSI/ISEA 107-2010 and ANSI/ISEA 207 to establish a single standard that considers all occupational tasks. This guide highlights several revisions to these standards. Keep in mind, your quality of protection with Majestic's current ANSI/ISEA 107-2010 garments and inventory is not impacted. The majority of the revisions outlined in these new standards focus on type and class categorization as well as identification. Your safety and level of protection has not changed.

### 1

#### THREE NEW HIGH VISIBILITY GARMENT TYPES

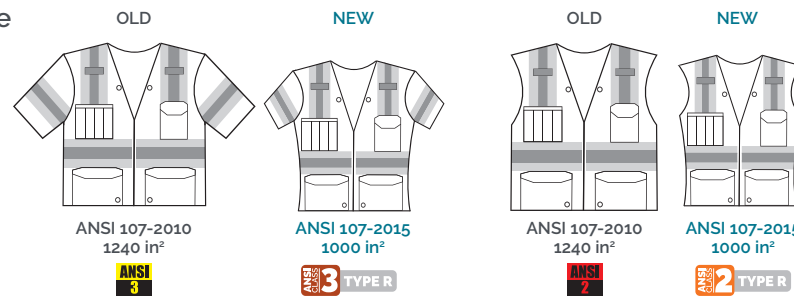
The new high visibility **Garment Types** are designated by the work environment in which workers are performing specific tasks. When combined with the existing Performance Classes (1, 2 & 3), this new standard provides safety managers with an expanded range of protection levels that address more hazards.

Garment Type	Application	Performance Classes
O	Off-Road Use	Class 1
R	Roadway Use	Classes 2 & 3
P	Public Safety	Classes 2 & 3

### 2

#### SMALLER SIZING FOR SMALLER WORKERS

This new standard allows for sizing that is more appropriate for smaller workers by reducing the minimum areas of visible materials only for the smallest size offered. This will increase worker compliance with more comfortable garments and intensify safety by eliminating more potential catch hazards.



Type	Class	Background Material Old Standard (2010)	Background Material New Standard (2015)
R	2	775 Square Inches	540 Square Inches
R	3	1240 Square Inches	1000 Square Inches

### 3

#### BALANCE OF DESIGN & LOGO PERSONALIZATION

Garments must be balanced in design so that not less than 40% of the minimum required amount of retroreflective or combined-performance and background materials is present on both the front and the back.

For example: a Class 3, Type R vest must have a minimum background material of 496 in<sup>2</sup> on the front and back of the garment, with the total background material reaching at least 1240 in<sup>2</sup>.

This new standard also allows company logos or personalization to be included in garments without reducing the total background area of the garment up to the following criteria:

- ◆ Personalization on background material should not exceed a total of 465 cm<sup>2</sup> or 72in<sup>2</sup> on the front and/or rear of the garment.
- ◆ Personalization on retroreflective material should not exceed a total of 142 cm<sup>2</sup> or 22 in<sup>2</sup> on the front and/or rear of the garment.

### 4

#### FLAME RESISTANT PERFORMANCE LABELING

All Majestic ANSI/ISEA 2015 garments will be marked to indicate flame resistance. Garments made from non-inherent flame resistant material or those not designed to meet FR standards will be distinguished by the following statement: *This garment is not flame resistant as defined by ANSI/ISEA 107-2015 Section 10.5*

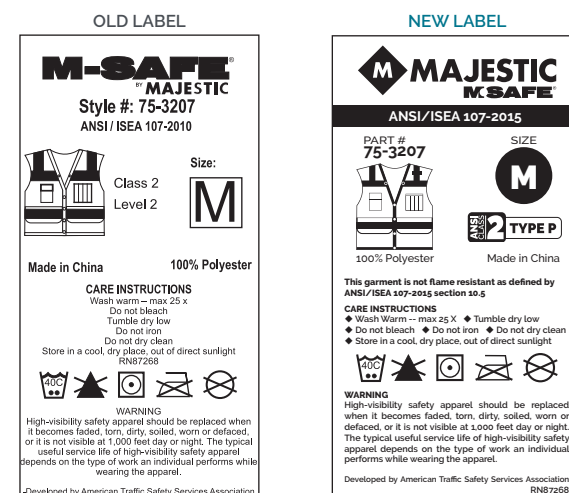
#### Minimum Areas of Visible Materials & Definition of Use for Garment Types

Garment Type	Performance Class	Background Material	Retroreflective or Combined-Performance Materials	Minimum Width Reflective Material	Definition of Use
Type O Off-road and Non-Roadway use	Class 1	0.14 m <sup>2</sup> (217 in <sup>2</sup> )	0.10 m <sup>2</sup> (155 in <sup>2</sup> )	25 mm (1 in)	Provides daytime and nighttime visual conspicuity enhancement for workers in occupational environments which pose struck-by hazards from moving vehicles, equipment and machinery, but which will not include exposure to traffic on public access highway rights-of-way or roadway temporary traffic control zones.
	Class 2*	0.50 m <sup>2</sup> (775 in <sup>2</sup> )	0.13 m <sup>2</sup> (201 in <sup>2</sup> )	25 mm (1 in) <sup>†</sup> 35 mm (1.38 in)	Provides daytime and nighttime visual conspicuity enhancement for workers in occupational environments which include exposure to traffic (vehicles using the highway for purposes of travel) from public access highway rights-of-way, or roadway temporary traffic control zones or from work vehicles and construction equipment within a roadway temporary traffic control zone.
Type R Roadway and Temporary Traffic Control Zone	Class 3**	0.80 m <sup>2</sup> (1240 in <sup>2</sup> )	0.20 m <sup>2</sup> (310 in <sup>2</sup> )	25 mm (1 in) <sup>†</sup> 50 mm (2 in)	
	Class 2	0.29 m <sup>2</sup> (450 in <sup>2</sup> )	0.13 m <sup>2</sup> (201 in <sup>2</sup> )	25 mm (1 in) <sup>†</sup> 50 mm (2 in)	Provides daytime and nighttime visual conspicuity enhancement for emergency and incident responders and law enforcement personnel in occupational environments which include exposure to traffic (vehicles using the highway for purposes of travel) from public access highway rights-of-way, or roadway temporary traffic control zones, or from work vehicles and construction equipment within a roadway temporary traffic control zone or from equipment and vehicles within the activity area. Type P HVSA provides additional options for emergency responders, incident responders and law enforcement who have competing hazards or require access to special equipment.
Type P Emergency and Incident Response and Law Enforcement Personnel	Class 3	0.50 m <sup>2</sup> (775 in <sup>2</sup> )	0.20 m <sup>2</sup> (310 in <sup>2</sup> )	25 mm (1 in) <sup>†</sup> 50 mm (2 in)	
	Class E	0.30 m <sup>2</sup> (465 in <sup>2</sup> )	0.07 m <sup>2</sup> (109 in <sup>2</sup> )	25 mm (1 in) <sup>†</sup> 50 mm (2 in)	Pants, bib overalls, shorts, and gaiters shall be designated Class E. Class E items shall not be worn alone for the purposes of meeting HVSA PPE requirements. When a Class E item is worn with Performance Class 2 or Class 3, the overall classification shall be Performance Class 3.
Supplemental Items <sup>†</sup> Pants, Overalls, Shorts, Rain Pants and Gaiters	Class E	0.30 m <sup>2</sup> (465 in <sup>2</sup> )	0.07 m <sup>2</sup> (109 in <sup>2</sup> )	25 mm (1 in) <sup>†</sup> 50 mm (2 in)	

\* For the smallest size offered in Type R, Performance Class 2, a minimum of 0.35 m<sup>2</sup> (540 in<sup>2</sup>) of background material may be used to accommodate small-sized workers. All subsequent larger sizes must use 0.50 m<sup>2</sup> (775 in<sup>2</sup>).  
 \*\* For the smallest size offered in Type R, Performance Class 3, a minimum of 0.65 m<sup>2</sup> (1000 in<sup>2</sup>) of background material may be used to accommodate small-sized workers. All subsequent larger sizes must use 0.80 m<sup>2</sup> (1240 in<sup>2</sup>).  
<sup>†</sup> When a Supplemental Class E item is worn with Performance Class 2 or 3, the overall classification for the ensemble shall be Performance Class 3.  
<sup>††</sup> For use with split-trim designs (See Section 6.3.1.2 of ANSI/ISEA 107-2015 Standards).

NOTE: Combined-performance materials can be counted toward the minimum area requirements for background material specified in this table.

Source: International Safety Equipment Association, ANSI/ISEA 107-105



All future Majestic high visibility products will reflect these new standards. However, all current products with ANSI/ISEA 107-2015 classification system are still compliant, safe, and reliable.

## INTENSIFY YOUR SAFETY STANDARDS

Source: International Safety Equipment Association, ANSI/ISEA 107-105