3M Be Safe Be Seen!

The publication that highlights relevant safety issues and offers industry insight and solutions.

Are Your Workers At Risk?

- Three out of every 100 occupational fatalities in 1998 were workers on foot hit by vehicles or mobile equipment, the 9th most common type of occupational fatality. (Source: Association of Worker's Compensation Boards of Canada)
- There were 24 fatalities and over 1000 injuries as the result of workers on foot being struck by a vehicle or other mobile equipment in 1998.

 (Source: WCB)
- Crews working during low-light hours are about two and a half times more likely to be struck by a motor vehicle than those working during the day.
- Orange traffic drums contain up to 11 times more reflective material than non-standard safety vests worn by outdoor workers.

New Standard 'Brightens' The Need For Visibility



Road construction, railway and utility workers, law enforcement and emergency response personnel, survey and airport ground crews, and others are routinely exposed to the hazards of low visibility on the job. Now they can be assured of being seen both day and night if they wear apparel that conforms to a newly-published American National Standard (ANSI/ISEA 107-1999).

Until the publication of this document, there was no uniform, authoritative guide for the design, performance specifications, and use of high-visibility and reflective apparel including vests, jackets, bib/jumpsuit coveralls, trousers and harnesses. Garments that meet this standard can be worn 24 hours a day to provide users with a high level of conspicuity through the use of combined fluorescent and retroreflective materials.

The standard was developed by the members of ISEA's Safety Wearing Apparel Group in response to concerns that American workers who are exposed to low visibility hazards are not wearing appropriate visibility-enhancing apparel.

"We are encouraged to see this sort of standard

passed," says Brenda Ackerman, sales and marketing manager, 3M Personal Safety Products
Division. "We have all driven through a construction work zone and witnessed workers who were wearing 'protective' garments that offered very little or no enhanced visibility. Unfortunately, many

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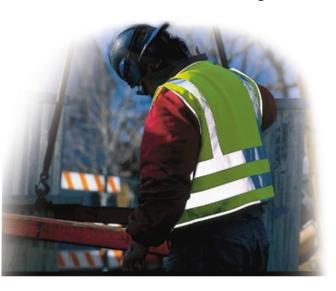
Meet Buzz!

Hi, I'm Buzz the Bumble Bee!
In each issue of Be Safe, Be Seen, I will bring you the latest industry "buzz" and important tidbits of information about safety and related issues.

"Bee" sure to look for me in upcoming issues.



New Standard 'Brightens' The Need For Visibility



of these workers believe they are protected when in fact they are not. Too many accidents occur on the job because of low visibility. This new standard will enhance worker visibility which, in turn, will greatly increase their safety."

Reflective material products from 3M meet the new standard. The wide range of 3M[™] Scotchlite[™] Reflective Material products and colours allows manufacturers to design vests, shirts, pants, outerwear, rainwear and other apparel to meet any of the three classes of garments specified by the standards.

"It's important that workers select garments that delineate the human form so they are distinguished from other items such as barrels, cones and signs in the work zone," explains Ackerman. "Workers need to stand out so that drivers can see them more easily. Bright colours in the day and reflective garments at night help them to do just that."

ANSI Standard Identifies Three Classes of High Visibility Garments

The ANSI/ISEA 107-1999 standard identifies the number of square inches of fluorescent background material and retroreflective material that is required per class of garment. It is ultimately the responsibility of the employer to determine what class of garment and what types of materials are required per work environment.

To aid the decision making process, the ANSI/ISEA 107-1999 defines "Conspicuity Class Levels". The conspicuity class levels were provided in the standard for information only. The intent of these guidelines is to recommend that the class garment be selected based on the conspicuity class definition. Please find below descriptions of the conspicuity classes.

CLASS 3:

Class 3 garments provide the highest level of conspicuity to workers with the high task loads in a wide range of weather conditions where traffic exceeds 80 km/hr (50 mph). The standard recommends these garments for all roadway construction personnel and vehicle operators, utility workers, survey crews, emergency responders, railway workers and accident site investigators.



CLASS 2:

Class 2 garments are intended for users who need greater visibility in inclement weather conditions and whose activities occur near roadways where traffic speeds exceed 40 km/hr (25 mph). Workers who would wear this class of garment include railway workers, school crossing guards, parking and toll gate personnel, airport ground crews and law enforcement personnel directing traffic.

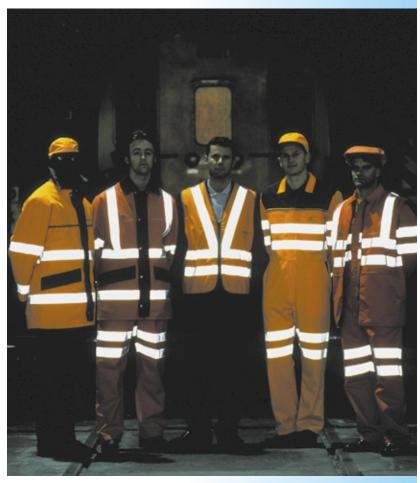


CLASS 1:

Class 1 garments are for users who have ample separation from vehicular traffic that does not exceed 40 km/hr (25 mph) and where the background is not complex. Parking service attendants, workers in warehouse with equipment traffic, shopping cart retrievers, sidewalk maintenance workers, and delivery vehicle drivers would wear this class of garments.



Selecting Appropriate Garments For Your Workers:

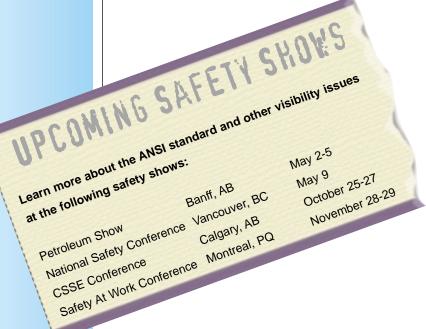


STEPS TO TAKE

- 1 Do a risk assessment of worker environment (reference ANSI/ISEA 107-1999 Appendix B for helpful information about conspicuity classes)
- 2 Select proper garment type, class and design placement.
- 3 Specify garment to ANSI/ISEA 107-1999 performance.
- 4 Select garment manufacturer who will:
 - Use certified background and retroreflective materials
 - · Use design guidelines to meet garment class
 - Label garment per ANSI/ISEA 107-1999

For a copy of the new
ANSI/ISEA
107-1999 standard,
call the ISEA
The Safety
Equipment Association

at: 703-525-1695 or visit their web site at: www.safetycentral.org



3M™ Scotchlite™ is the Answer

When incorporated into safety vests and other protective garments, workers' visibility in low-light conditions and at night is enhanced. When 3M™ Scotchlite™ Reflective Material is combined with a bright background colour—such as fluorescent lime-yellow—the workers are also more visible during the day against the sea of worksite orange. And the more reflective material that you specify on your workers' garments to help outline a human form, the better.



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Don't miss the
summer issue of
Be safe Be seen!

Don't go to work without us

3M[™] Scotchlite[™] Reflective Material products offer a wealth of benefits including:

- High brightness in low-light and nighttime viewing situations.
- Excellent wash performance and durability.
- A wide range of visibility-enhancing products for use on safety vests and all-season apparel.
- Innovative products backed by the technical strength and services of 3M.
- Meets the current ANSI/ISEA 107-99 standard.

Our products meet, or exceed current specification requirements for visibility and durability. Not all reflective trims do.

Call 3M for more details on how to meet the current specification requirements.

3M

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