



Work Zone Safety Tip:
Flaggers should wear high-visibility clothing with a fluorescent background and made of retroreflective material.

This makes workers visible for at least 1,000 feet in any direction. Check the label or packaging to ensure that the garments are performance class 2 or 3. Drivers should be warned with signs that there will be flaggers ahead. Flaggers should use STOP/SLOW paddles, paddles with lights, or flags (only in emergencies).



Understanding Hi-visibility—Are your workers fully protected?

Struck by hazards are a top four hazard identified by OSHA. According to statistics from the Center for Construction Research & Training from 2011 to 2015, 804 construction workers died from struck by injuries with 48% from a vehicle.

Over 57% occurred in work zones but 19% still occurred in non-roadway areas. Many industries outside of construction have workers exposed to hazards within and outside their premises and being seen in all environments at all times is a critical element to staying safe. From Utilities, Oil & Gas, Railroad, industrial factories, or maintenance workers working on their sites it is important to understand what options can make the difference between true safety and a potential injury.

Today there are several primary means offered today for worker protection. Understanding the differences of each and how they work differently and, in many cases, complement each other is important to making sure your workers are being offered the best and most up to date protection now available in the market.

Hi-Viz clothing with reflective materials

Using a vest as a typical example they are commonly seen in orange or lime colors with silver reflective in various combinations or standalone patterns. The Hi-Viz fabric itself is visible during the day and even offers some low light glow in some lower light applications but typically is not seen at all when there is no light such as the sun or artificial light present. This is the reason why most vests add a reflective striping, but even here there is a shortcoming that they require a source of light to reflect back to the light source (example a headlight from a car or a flashlight pointed in the direction of the vest). For workers who don't have a direct source of light or are caught in a power outage or walking thru or working in very low light sources these workers are usually not visible and can be missed altogether. Minutes of a power outage can seem like hours especially when working in or around dangerous equipment or moving parts of vehicles.

For workers where these are sufficient some great options can be seen below as great options for these minimum level conditions.

Truline
Blaze 110 Vest- Orange

Truline
Blaze 110 Vest- Lime

The Blaze 110 tested to the ANSI/ISEA 107-2015 is designed to keep your workers safe from a distance. A 5 point breakaway style ensures workers are not snagged or caught in machinery for ultimate protection. 3 inside pockets and a mic tab make this a versatile yet lightweight vest.

SHOP NOW

Over the years as advancements have been developed there are two higher protective offerings to consider, each with their own pros and cons to elevate your Safety to a higher level.

Say Goodbye to The Dark

A device called Halo™ SL has been designed to fit on an existing worker's hard hat and has many great features that make it stand out where added visibility is required.

This device is lightweight, rechargeable and offers the wearer 360-degree visibility for up to a ½ mile for increased safety. It is also cord-less, compatible with any standard hard hat, and in addition to four 360-degree light modes, it now offers a 50ft spotlight beam and two flood task lights. It is water resistant, has a battery life indicator and is dielectrically rated.

The Halo SL, while at a higher price point, is an excellent value due to its unmatched ability to offer both exceptional task lighting and long distance visibility for increased safety; all combined with incredible durability and options for extended run times.

ILLUMAGEAR

Halo SL
 Dustproof, water-resistant helmet light that is compatible with any standard hard hat provides 360° visibility for a quarter-mile. 1.5hr to 121hr battery life (406 Lumens Spot, 262 Lumens Task, 276 Lumens).

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GlowGuard™ Innovative Technology

The latest development GlowGuard™ is an innovative technology that combines both retro-reflective and photoluminescent properties. GlowGuard™ when used with High Vis provides visibility to wearer when transitioning from "well lit" areas to the shadow and low light environments. Without doing anything but wearing the garment, GlowGuard™ provides visibility 24/7 365 without batteries, wire or bulbs.

The benefit of this design is it does not matter if the power goes out, a led bulb shorts out or is not charged or whether there is any external light source such as a flashlight or car headlamp. When considering all above you can cover workers against all potential environments and elevates the protection to higher levels not seen before.

Here is a video showing the impact it can make:

GlowGuard

- Breathable inherent FR fabric
- HRC 2 with 8.9 Cal rating
- NFPA 2112, 70E and ANSI 107-2015

Below is an example of a Class 2 FR and Class 2 Non-FR ANSI/ISEA vest using this revolutionary technology that far exceeds ISO 17398:2004 & ASTM E2072.

Class 2 FR ANSI/ISEA Vest
 Class 2 glow vest with no batteries or lights required. Safety and comfort with glow/reflective tape for enhanced visibility. Phosphorescent pigments with afterglow measuring over 2000 mcd/m2 after 2 minutes and lasting up to 8 hours. Inherent HRC 2 & NFPA2112 FR for better protection against flash fire.

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Class 2 Non-FR ANSI/ISEA Vest
 Large arm opening for use over outer wear. Class 2 glow vesting features various pockets and divided mic tabs with no batteries or lights required. Safety and comfort with glow/reflective tape for enhanced visibility. Phosphorescent pigments with afterglow measuring over 2000 mcd/m2 after 2 minutes and lasting up to 8 hours. ANSI/ISEA 107-2015.

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Safety Glasses with TruGlow by GlowGuard™

Glow technology is now available on a Safety Glass using TruGlow by GlowGuard™.

Truline

React 111 Safety Glasses
 Using a proprietary formula with premium anti-fog lens coating, the React 111 outperforms all others in phosphorescent performance. The TruGlow technology will complement and enhance worker visibility independently or in tandem with reflective tapes, batteries or electrical dependent PPE. ANSI Z87+ Compliant; Dielectric.

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Knowing all the pros and cons of what it able to protect you and understanding each have their own strengths and limitations is vital to protecting your workers. If you have any additional questions, feel free to call your Arbill Safety Advisor for more help if required to stay safe on the job.

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The customer service by you and your team has been exceptional. It is very much appreciated. Thanks for the hard work!

- Environmental Products and Services Company

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