

PURPOSE

This guide outlines the high visibility apparel requirements in accordance with the American National Standards Institute (ANSI) standard, ANSI 107, for U.S. Gas operations. It is intended to be used in conjunction with the *Personal Protective Equipment Standard (CAN-US-MEX)* (Item ID 003721958) to ensure consistent application of visibility requirements across applicable work environments.

SCOPE

This section only applies to personnel performing work at any US Gas owned or operated locations where TC Energy is the Controlling Authority. This includes US Gas Operations, US Gas Projects, Corporate Services owned assets (i.e., Warehouse), and any support groups (e.g., Environment, Land, Safety and Technical Services) working within those assets.

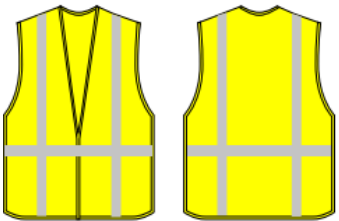
This Guide does not apply to Canada Gas, Canadian Power and Energy assets, or Mexico Gas.

High visibility apparel is required to be worn as the outermost garment for all construction activities or when working at a location that has active construction in progress and in warehouses where mobile equipment is being used.

- For work activity on or within 15 feet or 4.5 meters of a roadway, or as determined as part of a JSA or other hazard assessment, high visibility apparel must always be worn.

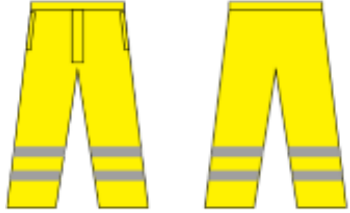
Note: In the event local jurisdictional codes are more stringent, follow those codes as directed.

Note: Personnel performing the duties designated signaler or spotter may be required to wear an additional gauntlet or some other form of apparel differentiating them from the other workers on the job site.

Type	Class	Description	Typical Use Cases	Background material (Square Inches (sq in))	Retroreflective or Combined-Performance Materials (sq in)	Minimum Width Retroreflective Material (inches (in))	Examples
Type O (Off-road)	Class 1	Provides the lowest level of visibility. Off-road near traffic and equipment traveling less than 25 mph	Working in a warehouse, including shipping and receiving operations where mobile equipment is being operated, Remote pipeline construction	217	155 *Type O Class 1 HVSA shall utilize at least one horizontal band of retroreflective or combined performance material around the torso, and shall include at least the minimum amounts of retroreflective or combined-performance material in the shoulder area if encircling bands are not present on sleeves	1	Top and Bottom:  Vest:  Harness: 

Type	Class	Description	Typical Use Cases	Background material (Square Inches (sq in))	Retroreflective or Combined-Performance Materials (sq in)	Minimum Width Retroreflective Material (inches (in))	Examples
Type R (Roadside)	Class 2	-Suitable for workers exposed to roadway traffic. -Provides moderate visibility. -Intended for workers in environments with higher risk, such as construction workers on roadsides. -The industry rule of thumb is to require these vests on worksites where traffic flow is 25-50mph.	Work near a roadway	775 *For smallest size offered, a minimum of 540 sq in. of background material may be used to accommodate small-sized workers.	201 *Type R Class 2 HVSA shall utilize at least one horizontal band of retroreflective or combined performance material around the torso, and shall include at least the minimum amounts of retroreflective or combined-performance material in the shoulder area if encircling bands are not present on sleeves	1.38	Vest:  Shirt: 

Type	Class	Description	Typical Use Cases	Background material (Square Inches (sq in))	Retroreflective or Combined-Performance Materials (sq in)	Minimum Width Retroreflective Material (inches (in))	Examples
Type R (Roadside)	Class 3	-Suitable for workers exposed to high-speed traffic or complex backgrounds. -Provides the highest level of visibility. -Must be a minimum of 2-inchwidth of retroreflective material -Near roadway traffic traveling more than 50mph	Work on or near roadways, flaggers	1,240 *For the smallest size offered, a minimum of 1,000 sq in. of background material may be used to accommodate small-sized workers.	310 * Type R Class 3 HVSA shall utilize one or more horizontal bands of retroreflective or combined performance material around the torso and shall include one or more encircling bands on the sleeves.	2	Coveralls:  Coat:  Shirt: 

Type	Class	Description	Typical Use Cases	Background material (Square Inches (sq in))	Retroreflective or Combined-Performance Materials (sq in)	Minimum Width Retroreflective Material (inches (in))	Examples
These are supplemental items that are non-ANSI as stand alone. Must be worn in addition to Class 2 or 3 safety vest.	Class E	Wear high-visibility apparel on the: - Upper body - Wrists - Ankles With appropriate background colour.	Suitable for workers exposed to high-risk activity such as being a spotter and or flagger.	465	109	2	Supplemental pants:  Gaiters: 