

Guide and Usage Material

What is the CSA Standard for High Visibility Safety Apparel (HVSA)?

CSA Standard Z96-09 is the standard for HVSA. It provides a standard for the elements that go in to the construction of an HVSA garment, which includes two types of materials: fluorescent background materials for daytime visibility, and retro-reflective tape for nighttime visibility. CSA also provides a standard for the design of the garment, according to the 3 different classes.

Background Material

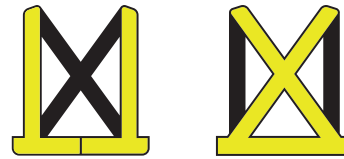
Colours for background material can be fluorescent yellow-green, fluorescent orange-red or fluorescent red. These change in FR garments, which cannot hold fluorescent dyes because of the materials used. In these cases the material must be bright yellow-green or bright orange only. The requirements can be found in the CSA standard table 2a for fluorescent materials and table 2b for bright (FR) materials.

Retro-reflective Tape

If the retro-reflective tape is going to be coloured, it can be fluorescent yellow-green, fluorescent red-orange or fluorescent red. Otherwise, it should be a standard retro-reflective of either white or silver tape. Retro-reflective tape can either be level 2, level 1, or level FR, depending on the class of the garment required. The minimum performance levels for these tapes can be found in tables 5, 6, and 7 of the CSA standard Z96-09.

Class 1

A Class 1 garment provides minimal visibility. The retroreflective material must consist of two vertical stripes on the front, an "X" on the back, and a horizontal band around the waist. The horizontal band may optionally continue between the two vertical stripes on the front. Fluorescent back-



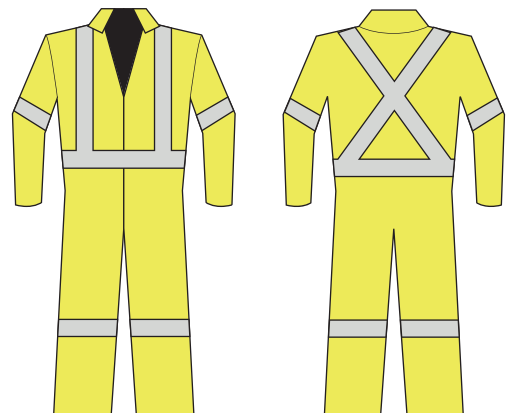
Class 2

A Class 2 garment has the same requirements for retro-reflective tape as a Class 1. A Class 2 garment also provides full coverage of the upper torso with fluorescent background material, including over the shoulders, front, back and sides. Coverage on the side of the torso under the arms must



Class 3

A Class 3 garment includes all of the same requirements as a Class 2 garment, with the addition of retro-reflective bands on each limb. Additional fluorescent background material is not necessarily required, but will



Traffic Vests ZENITH® Safety Products

- ✓ High-visibility lightweight polyester mesh provides daytime visibility
- ✓ 2" yellow reflective stripes
- ✓ Bright reflective stripes provide 360° nighttime visibility
- ✓ 5-point tear-away features on shoulders, sides and front for easy quick release



Model No.	Size	Price/Each
SEF093	Medium	\$00.00
SEF094	Large	\$00.00
SEF095	X-Large	\$00.00
SEF096	2X-Large	\$00.00

5-Point Tear-Away Traffic Safety Vest ZENITH® Safety Products

- ✓ Lightweight and comfortable fluorescent orange sports mesh knit fabric provides daytime visibility
- ✓ 2" yellow reflective stripes
- ✓ Bright reflective stripes provide 360° nighttime visibility
- ✓ 5-point tear-away features on shoulders, sides and front for easy quick release



Model No.	Size	Price/Each
SEF097	Medium	\$00.00
SEF098	Large	\$00.00
SEF099	X-Large	\$00.00
SEF100	2X-Large	\$00.00

5-Point Tear-Away Traffic Safety Vest



- ✓ Lightweight and comfortable, fluorescent orange or fluorescent lime-yellow sports mesh knit fabric provides daytime visibility
- ✓ Reflective stripes offer maximum nighttime visibility
- ✓ Front velcro enclosure permits optimal fitting
- ✓ Machine washable



Model No.	Colour	Size	Price/Each
SEB698	Orange	Medium	\$00.00
SEB699	Orange	Large	\$00.00
SEB700	Orange	X-Large	\$00.00
SEB701	Orange	2X-Large	\$00.00
SEB702	Lime-Yellow	Medium	\$00.00
SEB703	Lime-Yellow	Large	\$00.00
SEB704	Lime-Yellow	X-Large	\$00.00
SEB705	Lime-Yellow	2X-Large	\$00.00

Surveyor Traffic Safety Vest



- ✓ Lightweight and comfortable fluorescent orange sports mesh knit fabric provides daytime visibility
- ✓ 4" yellow/silver reflective stripes offer maximum nighttime visibility
- ✓ 5-point tear-away features on shoulders, sides and front for easy quick release
- ✓ Safety D-ring access slot
- ✓ Two top Velcro sealed pockets and two bottom open pockets
- ✓ Two radio loops
- ✓ Machine washable



Model No.	Size	Price/Each
SEF101	Medium	\$00.00
SEF102	Large	\$00.00
SEF103	X-Large	\$00.00
SEF104	2X-Large	\$00.00

Mesh Surveyors Safety Vests



- ✓ Fluorescent orange sports mesh knit fabric
- ✓ Contrasting yellow trim for daytime visibility
- ✓ 2" reflective stripes
- ✓ 5-point tear-away
- ✓ Two lower pockets
- ✓ Upper radio pocket
- ✓ Two radio loops
- ✓ Machine washable



Model No.	Size	Price/Each
SAR618	Medium	\$00.00
SAR619	Large	\$00.00
SAR620	X-Large	\$00.00
SAR621	2X-Large	\$00.00

Safety Vests with Contrasting Stripe



- ✓ Fluorescent lime-yellow wicking polyester fabric
- ✓ 4" fluorescent orange/silver stripes
- ✓ 5-point tear-away
- ✓ Machine washable



Model No.	Size	Price/Each
SAR636	Medium	\$00.00
SAR637	Large	\$00.00
SAR638	X-Large	\$00.00
SAR639	2X-Large	\$00.00

Polycotton Safety Vests



- ✓ Fluorescent lime-yellow poly/cotton twill
- ✓ 2" silver reflective stripes
- ✓ Two radio loops
- ✓ Two lower pockets with flaps
- ✓ Machine washable
- ✓ Made in Canada



Model No.	Size	Price/Each
SEA619	Medium	\$00.00
SEA620	Large	\$00.00
SEA621	X-Large	\$00.00
SEA622	2X-Large	\$00.00

Fire Retardant Safety Vests



- ✓ Bright orange fire retardant treated cotton fabric
- ✓ 2" silver reflective stripes
- ✓ Contrasting yellow trim for daytime visibility
- ✓ Two radio loops
- ✓ Machine washable
- ✓ Made in Canada



Model No.	Size	Price/Each
SAR655	Medium	\$00.00
SAR656	Large	\$00.00
SAR657	X-Large	\$00.00
SAR658	2X-Large	\$00.00

Body Warmer Safety Vests



- ✓ Polyurethane-coated polyester outer shell
- ✓ 2" silver reflective stripes
- ✓ Insulated for extra warmth in the fall and winter
- ✓ Waterproof, windproof, breathable and washable
- ✓ Two outside pockets lined with polar fleece
- ✓ Made in Canada



Model No.	Size	Price/Each
SEB281	Medium	\$00.00
SEB282	Large	\$00.00
SEB283	X-Large	\$00.00
SEB284	2X-Large	\$00.00

Polyester Safety Vests



- ✓ Bright orange fire retardant treated cotton fabric
- ✓ 2" silver reflective stripes
- ✓ Contrasting yellow trim for daytime visibility
- ✓ Two radio loops
- ✓ Machine washable
- ✓ Made in Canada



Model No.	Colour	Size	Price/Each
SAR632	Lime-Yellow	Medium	\$00.00
SAR633	Lime-Yellow	Large	\$00.00
SAR634	Lime-Yellow	X-Large	\$00.00
SAR635	Lime-Yellow	2X-Large	\$00.00
SAR627	Orange	Medium	\$00.00
SAR628	Orange	Large	\$00.00
SAR629	Orange	X-Large	\$00.00
SAR630	Orange	2X-Large	\$00.00

CSA Compliant T-Shirts

- ✓ Moisture wicking, lightweight, soft and breathable fabric
- ✓ Fluorescent lime-green 100% polyester "bird's eye" mesh material
- ✓ 3" fluorescent orange/silver dual reflective stripes
- ✓ Upper left breast pocket with velcro closure
- ✓ Two radio loops
- ✓ Machine washable



Model No.	Size	Price/Each
SEF109	Medium	\$00.00
SEF110	Large	\$00.00
SEF111	X-Large	\$00.00
SEF112	2X-Large	\$00.00

Polyester Safety T-Shirts



- ✓ Fluorescent polycotton knit fabric available in lime-yellow or orange
- ✓ 2" silver reflective stripes
- ✓ Machine washable
- ✓ Made in Canada



Lime Yellow Model No.	Orange Model No.	Description	Size	Price/Each
SAV009	SEA659	Short-Sleeve	Medium	\$00.00
SAV010	SEA660	Short-Sleeve	Large	\$00.00
SAV011	SEA661	Short-Sleeve	X-Large	\$00.00
SAV012	SEA662	Short-Sleeve	2X-Large	\$00.00
SEA708	SEA713	Long-Sleeve	Medium	\$00.00
SEA709	SEA714	Long-Sleeve	Large	\$00.00
SEA710	SEA715	Long-Sleeve	X-Large	\$00.00
SEA711	SEA716	Long-Sleeve	2X-Large	\$00.00

Winter Parkas



- ✓ Winter Parkas
- ✓ Fluorescent lime-yellow polyurethane coated polyester outer shell
- ✓ Black trim on cuffs of arms and legs as well as lower hem of jacket for added protection from wear and soiling
- ✓ 2" silver reflective stripes
- ✓ Breathable, waterproof and windproof
- ✓ Warm insulation with wicking liner
- ✓ Outer pockets lines in polar fleece for extra warmth
- ✓ Zippered, removable insulated hood with drawstring and velcro closure at neck



Model No.	Size	Price/Each
SEA562	Medium	\$00.00
SEA563	Large	\$00.00
SEA564	X-Large	\$00.00
SEA565	2X-Large	\$00.00

3-in-1 Insulated Parkas



- ✓ Fluorescent lime-yellow polyurethane coated polyester outer and inner shells
- ✓ Black trim on cuffs of arms and legs as well as lower hem of jacket for added protection from wear and soiling
- ✓ 2" silver reflective stripes
- ✓ Breathable, waterproof, and waterproof
- ✓ Outer shell is a mesh lines rain jacket with 2 slash pockets and a hood that stores in the collar
- ✓ Inner shell is an insulated winter liner with 2 front pockets w/flaps, 2 inside pockets, and an inside cell phone pocket, all secured with velcro
- ✓ Inner shell also has removable sleeves to convert to a vest



Model No.	Size	Price/Each
SEA557	Medium	\$00.00
SEA558	Large	\$00.00
SEA559	X-Large	\$00.00
SEA560	2X-Large	\$00.00

Trooper Rain Suits



- ✓ Fluorescent lime-yellow polyurethane coated polyester stretch fabric
- ✓ 2" silver reflective stripes
- ✓ Tear, chemical, abrasion, and puncture-resistant
- ✓ Stretchy, breathable, washable, windproof and waterproof
- ✓ Seams sealed and welded
- ✓ Velcro adjustment on leg cuff
- ✓ Hood enclosed in collar



Model No.	Size	Price/Each
SEA669	Medium	\$00.00
SEA670	Large	\$00.00
SEA671	X-Large	\$00.00
SEA672	2X-Large	\$00.00

Tough & Dry Rain Suits



- ✓ Fluorescent lime-yellow polyurethane coated polyester
- ✓ 2" silver reflective stripes
- ✓ Breathable, washable, windproof and waterproof
- ✓ Black at lower sleeves, cuffs, and waist for longer wear
- ✓ Seams sealed and welded
- ✓ Velcro adjustment on leg cuff
- ✓ Hood enclosed in collar



Model No.	Size	Price/Each
SEA600	Medium	\$00.00
SEA601	Large	\$00.00
SEA602	X-Large	\$00.00
SEA603	2X-Large	\$00.00

Journeyman 3-in-1 Safety Jackets



- ✓ 100% waterproof, windproof, and machine washable
- ✓ All-season 3-in-1 design includes zip-in fleece liner
- ✓ Premium 300 Denier Ripstop polyester material gives good abrasion, puncture, rip, and snag resistance
- ✓ Jacket shell is flexible even in sub-zero conditions
- ✓ Double-sewn, taped and heat-sealed seams
- ✓ Heavy-duty brass snaps



Orange Model No.	Lime Yellow Model No.	Size	Price/Each
SEF133	SEF140	Small	\$00.00
SEF134	SEF141	Medium	\$00.00
SEF135	SEF142	Large	\$00.00
SEF136	SEF143	X-Large	\$00.00
SEF137	SEF144	2X-Large	\$00.00
SEF138	SEF145	3X-Large	\$00.00
SEF139	SEF146	4X-Large	\$00.00

Hood

Orange Model No.	Yellow Lime Model No.
SEJ952	SEJ953

Polycotton Safety Crewneck Sweatshirts



- ✓ Fluorescent polycotton fabric available in lime-yellow or orange
- ✓ 2" silver reflective stripes
- ✓ Machine washable
- ✓ Made in Canada

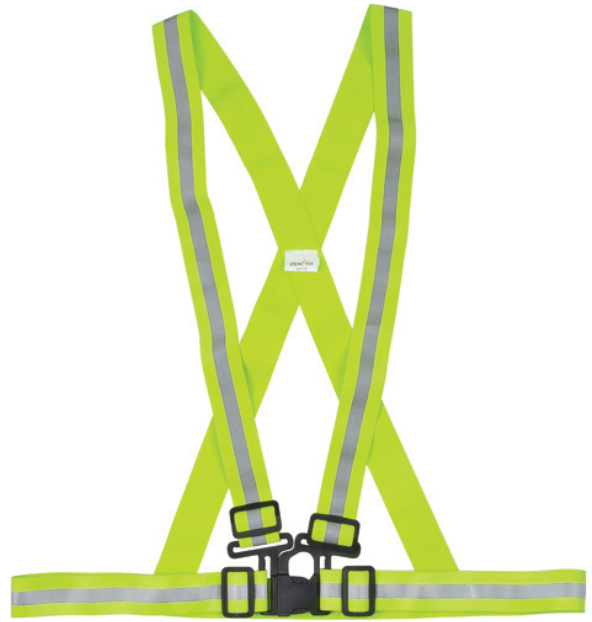


Model No.	Colour	Size	Price/Each
SEA604	Lime-Yellow	Medium	\$00.00
SEA605	Lime-Yellow	Large	\$00.00
SEA606	Lime-Yellow	X-Large	\$00.00
SEA607	Lime-Yellow	2X-Large	\$00.00
SEA609	Orange	Medium	\$00.00
SEA610	Orange	Large	\$00.00
SEA611	Orange	X-Large	\$00.00
SEA612	Orange	2X-Large	\$00.00

Traffic Harnesses



- ✓ 1 1/2" lime-yellow/silver reflective stripes
- ✓ Elasticized material permits optimal fit
- ✓ Four strap adjusters and front clip for maximum adjustability



Model No.	Size	Price/Each
SEF117	Medium	\$00.00
SEF118	Large	\$00.00
SEF119	X-Large	\$00.00
SEF120	2X-Large	\$00.00
SEF121	3X-Large	\$00.00

Arm & Leg Brands



- ✓ 2" lime-yellow/silver reflective bands
- ✓ Velcro closure permits optimal fit
- ✓ Available in various lengths



Model No.	Length	Price/Each
SEF122	10"	\$00.00
SEF123	12"	\$00.00
SEF124	13½"	\$00.00
SEF125	15"	\$00.00
SEF126	17"	\$00.00
SEF127	19"	\$00.00

Hard Hat Kits



- ✓ Silver reflective with coloured chevrons, increasing visibility from all angles
- ✓ Acrylic adhesive offering dielectric properties
- ✓ Reflexite reflective tape
- ✓ 3 strips per kit
- ✓ Standard chevron colours: red, blue, white, black, green, other available upon request



Model No.	Colour	Price/Each
SEA703	Red	\$00.00
SEA704	Blue	\$00.00
SEA705	White	\$00.00
SEA706	Black	\$00.00
SEA707	Green	\$00.00

High Visibility Fleece Toques



- ✓ Fluorescent lime-yellow or fluorescent orange
- ✓ 100% polyester fleece
- ✓ One size fits all
- ✓ Machine washable



Model No.	Colour	Price/Each
SEA779	Lime-Yellow	\$00.00
SEB590	Orange	\$00.00