

19 West 36 Street, Tenth Floor New York, NY 10018 tel: 212 947 8391 fax: 212 947 8719

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# Third Party Certificate of Test (ANSI/ISEA 107-2015) HIGH VISIBILITY COMPLIANCE

Submitted by: Portwest LLC.
Style #: G476, Glotex Hi Vis Vest
Size: Small
Color Yellow W/Silver

Date: January 26, 2017

Test Report #: PORTWE.A011017D

The submitted Garment, **Size S**, **MEETS** the requirements of ANSI/ISEA 107-2015 Specification for the tests conducted in this report covering **Type R**, **Class 2 NFR Garments**. The submitted Garment, **Size S**, is to represent the smallest size designation for this style.

All of the above tests and evaluations were performed in accordance with ISO/IEC 17025 Quality Systems.

Certification of background and retroreflective material characteristics is not implied by this certificate or by the original report.



Adam R. Varley Technical Director







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#### ISO/ICC 17025 Certified Third Party Test Report

DATE:

January 26, 2017

FILE: PORTWE.A011017D

**CLIENT:** 

Portwest LLC.

ATTN: Agne Grigalauskyte

1272 Omega Parkway

Shepherdsville, KY 40165, USA

#### **SAMPLE IDENTIFIED BY CLIENT AS:**

Garment Submitted

Per ANSI/ISEA 107-2015 Specification Style #: G476, Glotex Hi Vis Vest

Size: Small

Color Yellow W/Silver

#### **EXECUTIVE SUMMARY**

The submitted Garment, Size S, MEETS the requirements of ANSI/ISEA 107-2015 Specification for the tests conducted in this report covering Type R, Class 2 NFR Garments. The submitted Garment, Size S, is to represent the smallest size designation for this style.

Evaluation and compliance of the background and retroreflective material characteristics are not implied by this report.

Section	Requirement	Test Result	Pass, Fail, or N/A		
6.	Design				
6.1	Ergonomics				
	High visibility safety apparel and accessories should be designed and manufactured taking into account the		Pass		
	following considerations:  a. The materials and components of the garment should not be known to affect the wearer adversely.		Pass		
	b. Parts of the garment that come into contact with the end user should be free of roughness, sharp edges and projections that could cause irritation or		Pass		
	injuries.  c. The garment should be designed for correct fit and positioning on the user and should be designed to ensure that it remains in place for the expected period of use, anticipating environmental factors		Pass		
	as well as movements the wearer could adopt during the course of work.				



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Section	Requirement	Test Result	Pass, Fail, or N/A
6.2	Apparel Configurations		
6.2.1	General HVSA shall incorporate the minimum areas of materials specified in Table 1. Minimum Areas of Visible Materials BACKGROUND MATERIAL (including any Combined Performance Material):		
	Type O, Performance Class 1		
	0.14 m <sup>2</sup> (217 in <sup>2</sup> )	$m^2$ $(in^2)$	N/A
	Type R, Performance Class 2 0.50 m <sup>2</sup> (775 in <sup>2</sup> )	0.52 m <sup>2</sup> (797.98n <sup>2</sup> )	Pass
	Type R, Performance Class 2 Small Size Worker		
	Smallest Size 0.35 m <sup>2</sup> (540 in <sup>2</sup> )	$m^2$ $(in^2)$	N/A
	Subsequent Larger Size 0.50 m <sup>2</sup> (775 in <sup>2</sup> )	$m^2$ (in <sup>2</sup> )	N/A
	Type R, Performance Class 3		
	0.8 m <sup>2</sup> (1240 in <sup>2</sup> )	$m^2$ (in <sup>2</sup> )	N/A
	Type R, Performance Class 3 Small Size Worker		
	Smallest Size 0.65 m <sup>2</sup> (1000 in <sup>2</sup> )	$m^2$ $(in^2)$	N/A
	Subsequent Larger Size 0.8 m <sup>2</sup> (1240 in <sup>2</sup> )	$m^2$ $(in^2)$	N/A
	Type P, Performance Class 2 0.29 m <sup>2</sup> (450 in <sup>2</sup> )	$m^2$ $(in^2)$	N/A
	Type P, Performance Class 3	ш (ш)	IN/A
	$0.50 \text{ m}^2 (775 \text{ in}^2)$	$m^2$ $(in^2)$	N/A
	Supplemental Items, Class E 0.30 m <sup>2</sup> (465 in <sup>2</sup> )	$m^2$ $(in^2)$	N/A



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Section	Requirement	Test Result	Pass, Fail, or N/A
6.2.1	RETROREFLECTIVE OR COMBINED-PERFORMANCE MATERIAL:		'
	Type O, Performance Class 1 0.10 m <sup>2</sup> (155 in <sup>2</sup> )	$m^2$ $(in^2)$	N/A
	Type P, Performance Class 2 0.13 m <sup>2</sup> (201 in <sup>2</sup> )	$m^2$ (in <sup>2</sup> )	N/A
	Type P, Performance Class 3 0.2 m <sup>2</sup> (310 in <sup>2</sup> )  Type R, Performance Class 2	$m^2$ $(in^2)$	N/A
	0.13 m <sup>2</sup> (201 in <sup>2</sup> )  Type R, Performance Class 3	0.14 m <sup>2</sup> (216.00 In <sup>2</sup> )	Pass
	0.2 m <sup>2</sup> (310 in <sup>2</sup> )  Supplemental Items, Class E	$m^2$ $(in^2)$	N/A
	0.07 m <sup>2</sup> (109 in <sup>2</sup> )	$m^2$ $(in^2)$	N/A
6.2.2	Type O HVSA Type O Class 1 HVSA shall utilize at least one horizontal band of retroreflective or combined-performance		N/A
	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.		N/A
6.2.3	Type R HVSA		
6.2.3.1	Type R Class 2 Type R Class 2 HVSA shall utilize at least one horizontal band of		Pass
	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		Pass
	on sleeves.		





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Section	Requirement	Test Result	Pass, Fail, or N/A
6.2.3.2	Type R Class 3 Type R Class 3 HVSA shall utilize one or more horizontal bands of retroreflective or combined- performance material around the torso,		N/A
	and shall include one or more encircling bands on the sleeves.		N/A
6.2.4	Type P HVSA		
6.2.4.1	Type P Class 2 Type P Class 2 HVSA shall utilize at least one horizontal band of retroreflective or combined-performance		N/A
	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.		N/A
6.2.4.2	Type P Class 3 Type P Class 3 HVSA shall utilize at least one horizontal band of retroreflective or combined-performance material around the torso,		N/A
	and shall include one or more encircling bands on the sleeves.		N/A
6.3	Construction Requirements		
6.3.1	Retroreflective and Combined- Performance Materials		
6.3.1.1	Minimum Widths The width of the retroreflective or combined-performance materials incorporated into the HVSA shall not be less than the dimensions specified in Table 1.		
	Type O, Performance Class 1 25 mm (1 in)	mm (in)	N/A
	Type R, Performance Class 2 25 mm (1 in) Split Trim or 35 mm (1.38 in)	Retroreflective Material 50mm (2.0in)	Pass





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Section	Requirement	Test Result	Pass, Fail, or N/A
6.3.1.1	Type R, Performance Class 3		
	25 mm (1 in) Split Trim or	mm (in)	N/A
	50 mm (2 in)		14/71
	Type P, Performance Class 2		
	25 mm (1 in) Split Trim or	mm (in)	N/A
	35 mm (1.38 in)	min (iii)	14/11
	Type P, Performance Class 3		
	25 mm (1 in) Split Trim or	mm (in)	N/A
	50 mm (2 in)	mii (iii)	14/11
	Supplemental Items, Class E		
	25 mm (1 in) Split Trim or	mm (in)	N/A
	50 mm (2 in)		14/11
6.3.1.2	Split trim designs		
	Positioned as a parallel pair		N/A
	The two paired stripes of retroreflective		N/A
	or combined-performance material shall		1,112
	not be separated by more than		
	50 mm (1.97 in).		
6.3.1.3	Spacing between Multiple Bands	Not Present	
	Minimum distance between bands of		N/A
	retroreflective or combined-performance		
	material shall be at least equal to the		
	width of the band.		
6.3.2	Placement of Retroreflective and		
	Combined Performance Materials		
6.3.2.1	Distance from Bottom Edge of HVSA		
	Horizontal retroreflective or combined-	269.88 mm (10.625 in)	Pass
	performance materials shall be placed at	,	
	least 50 mm (1.97 in) above the bottom		
	of the hem of the torso, long sleeve		
	HVSA and long pant styles.		
6.3.2.2	Encircling Arms and Legs		
	Horizontal retroreflective or combined-		N/A
	performance materials placed on arms or		
	legs shall encircle them in such a manner		
	to provide 360° visibility of the wearer at		_
	all viewing angles in a horizontal plane.		



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Section	Requirement	Test Result	Pass, Fail, or N/A
6.3.2.3	Long Sleeves If upper bands of retroreflective or combined- performance materials are placed on long sleeves, the bands shall be placed between the elbow and the		N/A
-	shoulder. Lower bands can be placed between the elbow and wrist but shall be at least 50 mm (1.97 in) above the bottom of the sleeve.		N/A
6.3.3	Gaps Gaps in retroreflective, combined- performance, and background materials shall not be more than 50 mm (1.97 in) horizontally to enable fastening or for	Present Front Trim: 9.65 mm (0.375 in)	Pass
	seam allowance. Retroreflective or combined- performance materials shall not count against the width of this gap.		N/A
6.3.4	360° Visibility Retroreflective or combined- performance and background materials shall be positioned in such a way to provide 360° visibility of the wearer at all viewing angles in a horizontal plane.		Pass
6.3.5	Material Use and Balance of Design Garments shall be balanced in design so that not less than 40% of the minimum required amount of retroreflective or combined-performance and background materials specified in Table 1 is present on both the front and the back when laid flat.		,
	BACKGROUND MATERIAL (including any Combined Performance Material):		
	Type O, Performance Class 1 0.056 m² (86.8 in²)	Front: $m^2$ $(in^2)$ Back: $m^2$ $(in^2)$	N/A
	Type R, Performance Class 2 0.20 m <sup>2</sup> (310 in <sup>2</sup> )	Front: 0.25 m <sup>2</sup> (381.45 in <sup>2</sup> ) Back: 0.27 m <sup>2</sup> (416.53 in <sup>2</sup> )	Pass







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Section	Requirement		Test Result	Pass, Fail or N/A
6.3.5	Type R, Performance Class 3	Front:	$m^2$ $(in^2)$	
	0.32 m <sup>2</sup> (496 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A
	Type R, Performance Class 2 Small Size Worker			
	Smallest Size	Front:	$m^2$ $(in^2)$	
	$0.14 \text{ m}^2 (216 \text{ in}^2)$	Back;	m	N/A
	Subsequent Larger Size	Front:	$     m^2 \qquad (in^2) $	IN/A
	0.20 m <sup>2</sup> (310 in <sup>2</sup> )	Back:	$     m^2  (in^2) $	NT/A
	Type R, Performance Class 3	Back:	m (in)	N/A
	Small Size Worker			
	Smallest Size	Front:	$m^2$ $(in^2)$	
	$0.26 \text{ m}^2 (400 \text{ in}^2)$	Back:	$m^2$ $(in^2)$	N/A
	Subsequent Larger Size	Front:	$m^2$ $(in^2)$	
	0.32 m <sup>2</sup> (496 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A
	Type P, Performance Class 2	Front:	$m^2$ $(in^2)$	
	0.116 m <sup>2</sup> (180 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A
	Type P, Performance Class 3	Front:	$m^2$ $(in^2)$	
	0.20 m <sup>2</sup> (310 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A
	Supplemental Items, Class E	Front:	$m^2$ $(in^2)$	
	0.12 m <sup>2</sup> (186 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A
5.3.5	RETROREFLECTIVE OR COMBINED-PERFORMANCE MATERIAL:			
	Type O, Performance Class 1	Front:	$m^2$ $(in^2)$	
	0.04 m <sup>2</sup> (62 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A
	Type R, Performance Class 2	Front:	$0.07 \text{ m}^2 (107.75 \text{ in}^2)$	Pass
	0.052 m <sup>2</sup> (80.4 in <sup>2</sup> )	Back:	$0.07 \text{ m}^2 (108.25 \text{ in}^2)$	Pass
	Type R, Performance Class 3	Front:	$m_2^2$ $(in_2^2)$	
	0.08 m <sup>2</sup> (124 in <sup>2</sup> )	Back:	$m^2$ $(n^2)$	N/A
	Type P, Performance Class 2	Front:	$m^2$ $(in^2)$	
	0.052 m <sup>2</sup> (80.4 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A
	Type P, Performance Class 3	Front:	$m^2$ $(in^2)$	
	0.08 m <sup>2</sup> (124 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A
	Supplemental Items, Class E	Front:	$m^2$ $(in^2)$	
	0.028 m <sup>2</sup> (43.6 in <sup>2</sup> )	Back:	$m^2$ $(in^2)$	N/A



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Size: Small
Color Yellow W/Silver

Section	Requirement	Test Result	Pass, Fail, or N/A
6.3.6	Shoulder Area		
	HVSA without retroreflective or	Present	Pass
	combined performance material that		
	encircles the arm shall have a minimum		
	of 150 cm <sup>2</sup> (23.3 in <sup>2</sup> ) of retro-reflective		1
	material or combined- performance		1
	material in the shoulder area to provide		
	180° visibility of the wearer.		
7	Criteria for Optional Features and		
	Testing		
7.1	Pockets		
	Pockets of matching or contrasting	Present	Pass
	compliant high-visibility materials shall		
	not create gaps in retroreflective or		
	combined-performance material of more		
	than 50 mm (1.97 in) horizontally.		
7.2	Identification Panels, Lettering and		
	Logos (Type R and P)		
	shall not create gaps in retroreflective or	Not Present	N/A
	combined-performance material of more		
	than 50 mm (1.97 in) horizontally.		
	Identification panels, lettering and logos		
	of contrasting non-compliant material		
	shall not exceed a total of 465 cm <sup>2</sup>	Present	Pass
	(72 in <sup>2</sup> ) on the front and/or rear of the		1
	HVSA and such total amount may		
	contribute to the minimum amount of		
	visible background material specified in		
	Table 1.		
	shall cover no more than	$m^2$ (in <sup>2</sup> )	N/A
	142 cm <sup>2</sup> (22 in <sup>2</sup> ) of the minimum amount	( /	
	of visible retroreflective or combined-		
	performance material specified in		
	Table 1.		



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Section	Requirement	Test Result	Pass, Fail, or N/A
7.3	Identification of Personnel (Type P)		
	A method of identifying the public safety		N/A
	entity such as an identification panel		
	and/or trim may be incorporated into the		
	HVSA. Public safety industries may be		
	identified with the specific names and		ľ
	colors:		
	Red: Fire Service		/
	Green: Emergency Medical		
	Service (EMS)		
	Blue: Law Enforcement		



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Size: Small
Color Yellow W/Silver

Section	Requirement	Test Result	Pass, Fail, or N/A
11	Care Labeling Washing or cleaning instructions shall be indicated in accordance with ASTM D5489-14, Standard Guide for Care Symbols for Care Instructions on Textile Products, as relevant.	Information Image Submitted for Labels  177-LCO  (B) (Ch) Principle Chamber Ch	Pass





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Section	Requirement	Test Result	Pass, Fail, or N/A
12	Marking		
12.1	General		
	Each piece of apparel and headwear shall be marked. The marking shall be: on the product itself or on labels attached to the product;		Pass
	permanently affixed so as to be visible and legible;	Present and Information Image Submitted for Labels	Pass
	durable for the appropriate number of cleaning processes.	Information Image Submitted for Labels Maximum 25 Wash Cycles See Section: 11	Pass
	NOTE: The use of numbers not smaller than 2 mm (0.08 in) and pictograms not smaller than 10 mm (0.39 in) is recommended. Numbers and pictograms are recommended to be black on white background.	Present and Information Image Submitted for Labels	Pass
12.2	The marking of garments shall include the following information:  a. Name, trademark or other means of identification of the manufacturer or	Present and Information Image Submitted for Labels	Pass
	authorized representative;	See Section: 12.2 (c)	
	b. Designation of the product Type commercial name or code;	Information Image Submitted for Labels See Section: 12.2 (c)	Pass



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Section	Requirement	Test Result	Pass, Fail, or N/A
12.2	c. Size designation;	Present and Information Image Submitted for Labels  PORTMEST  S  36-38  NOHES  92-96  MA  46-48  46-48  GA76	Pass
	d. Number of this specific ANSI standard (ANSI/ISEA 107-2015);	Present See Section: 12.2 (f)	Pass
	e. Statement regarding flame resistance which shall be conveyed in one of the following ways:  (1) To indicate that the HVSA has been evaluated per the one of the methods cited in Section 10.5, Flame Resistance, A. The label shall include the letters FR followed by the designation of the specific ASTM standard used to evaluate flame resistance; or.  B. Attachment of a separate label indicating certification to NFPA 1977 or 2112.  (2) If none of the flame resistant standards in Section 10.5 are met, the label shall include the following statement:  "This garment is not flame resistant as defined by ANSI/ISEA 107-2015" Section. 10.5."	Information Image Submitted for Labels "Not FR" See Section: 12.2 (f)	Pass



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Section	Requirement	Test Result	Pass, Fail, or N/A
12.2	f. Pictogram showing the HVSA type, performance Class and flame resistance status. The pictogram may be either the universal representation or an accurate drawing representing the specific garment.  NOTE: For supplemental items Performance Class E, only the markings Y (indicating Performance Class) and Z (indicating the flame resistance statement) are required	Present and Information Image Submitted for Labels  G476  EN ISO 20471:2013 Class 2  Max 25x Notified Body, 2019  ANSI/ISEA 107-2015  Machine wash warm, mild process. Do not bleach. Line dry. Do not iron. Do not dry clean.  Type R Class 2 NOT FR  This garment is not flame resistant as defined by AMSI/ISEA 107-2015 Section 10.5  MADE IN BANKLADESH	Pass
	g. The maximum number of processes for the finished item shall be stated after 'maximum' next to the care labeling.	Present and Information Image Submitted for Labels  Maximum 25 Wash Cycles See Section: 11	Pass
13	Instructions for Use		***
13.1	Product Information Garments shall be supplied to the customer with information written at least in English.		Pass
	The following minimum information shall be given:  a. Fitting; how to put on and take off, if relevant.	Present: Not Relevant	N/A





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Bequirement  b. Necessary warnings of misuse.	Information Image Submitted for Labels  PORTIVEST  US ARSI 107-2015  Gas information Sheet  Image of the state of the stat	Pass, Fail, or N/A Pass
	PORTWEST PORTWEST  PORTWEST PORTWEST  Superministration of the second of	
	Instructions: Expose Glowtex™ to daylight or artificial light for 5-30 minutes to charge.	
		The state of the s





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13.1	c. Limitations on use.	Information Image Submitted for Labels See Section: 13.1 (b)	Pass
	d. Storage; how to store and maintain correctly, with maximum periods between maintenance checks.	Information Image Submitted for Labels See Section: 13.1 (b)	Pass
	e. Maintenance and cleaning; how to clean or decontaminate correctly, with complete washing or dry cleaning instructions.	Present and Information Image Submitted for Labels  See Section: 11	Pass
	f. The number of cleaning processes without impairment of its performance level.	Present and Information Image Submitted for Labels	Pass
		Maximum 25 Wash Cycles See Section: 11	

pany By

**Technical Director** 

JG/01

Stacy Sadowy Quality Assurance Manager

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