

No. 1212121.6

(Please quote this number in all correspondence)

CLIENT:

SAMPLE RECEIVED FROM:

Date:

Pan Products Ltd. PO Box 396

Pan Products Ltd.

5.1.18

Dargaville 0340

SAMPLE DESCRIPTION:

Orange vest, size L.

Attn.: Nathan Cottle

Client Order No.:

Client Reference:

1 of 7

CONFORMANCE TO NZ TRANSPORT AGENCY SPECIFICATIONS, EDITION 4 OF PART 8 COPTTM, SECTION B, FEBRUARY 2017 (TTMC-W17) & TECHNICAL NOTE: REVISED REQUIREMENT FOR HIGH VISIBILITY **GARMENTS, SEPTEMBER 2017**

Section B3 High Visibility Garments

	Conformance
Background fabric Compliance, Section B3.1.1	Conforms
(this section is not covered in full by IANZ accreditation)	(see NZWTA report no. 1160984.9)
Retro-reflectivity, Section B3.1.2	Conforms
(this section is not covered in by IANZ accreditation)	(as stated by SGS report no. SHSL1302029053TX)
Retro-reflectivity, Section B3.1.2 – Orange Red Material for STMS Panel	N/A
(this section is not covered in by IANZ accreditation)	
Logos, Section B3.2	N/A
Garment Compliance, Section B3.3	Conforms
Garment Design, Sleeveless Vest Section B3.4.1	Conforms
STMS Sleeveless Vest, Section B3.4.2.1	N/A
MTC Garment Sleeve, Section B3.4.2.2	N/A



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L A Greer Signatory C Judan Signatory 05/01/2018

New Zealand Wool Testing Authority Ltd

Cnr Bridge & Lever Streets, PO Box 12065 Ahuriti, Napier 4144, New Zealand



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Section B3 High Visibility Garments

Section B3 1 1 Fabric Colour Compliance

Requirement	Results	Conformance
Background material :	See NZWTA report no. 1160984.9.	Conforms
Fluorescent or non-fluorescent orange-red or		
yellow to conform to AS/NZS 1906.4:2010,		
measured both wet and dry, light,		
perspiration and wash fastness.		

Section B3.1.2 Retro-reflectivity (Note: this section is not covered by IANZ accreditation)

Requirement	Results	Conformance
Retro- reflectivity	See SGS report no. SHSL1302029053TX.	
Must comply with specification "R" of		(as stated by SGS report)
AS/NZS 1906.4 :2010		
Retro-reflective orange red material for	N/A	N/A
STMS must comply with the colour		
specification for Class F background material		
as noted in Clause B3.1.1.		

Section B3.2 Logos

Requirement	Results	Conformance
Lettering, symbols or logos must be on the upper front left of the garment (N/A to STMS)	N/A	N/A
The maximum area of any clear plastic pocket is 7500mm ² (100 x 75 mm) (N/A to STMS).	N/A	N/A
A technical recognition ID, max 30mmx30mm (900 mm ²⁻⁾ may be added to the wearer's upper front right side of the garment.	N/A	N/A
A manufacturers label to a maximum size of 50 x 20 mm may be sewn or printed on the lower sleeve on non-high visibility material.	N/A	N/A



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Section B3.3 Garment Compliance

Requirement	Results	Conformance
AS/NZS 4602.1:2011 The tape must be a complete horizontal hoop at approximately waist level. A break at the front of no more than 25mm is permitted (see also Figures 1 and 2 CoPTTM).	The tape is a complete horizontal hoop. There are no breaks at the sides or in the braces.	Conforms
Retro-reflective tapes must be no less than 50 mm wide.	The tape is 50 mm wide.	Conforms
Compliance must be achieved for a garment size designed to fit a body chest measurement 100-105 cm.	The size submitted is size L. Body chest measurement: 127 cm	Conforms
The letters TTMC-W17 must be included on the garment label.	The letters are not included on the garment label. However, the client submitted a layout of the label with TTMC-W17 that will be used in the production process.	Conforms

Garment Design Section B3.4

Garment Design B3.4.1 Sleeveless vest general requirements – based on AS/NZS 4602.1:2011/Amendment 1:Nov. 2016 with additional requirements.

Requirement	Results	Conformance
The design must include a shirt tail that is at least 150 ±5mm longer than the front. The shirt tail may be split, provided there is	There is a shirt tail on this vest. It is 155 mm longer than the front	Conforms
an overlap.		0 (
The minimum qualifying area measurement of background high visibility material for the recognised 100-105 cm test size garment not	Front – excluding the reflective tapes, the background material area is 0.31 m ² .	Conforms
covered by retro-reflective material or printing must be: - Front of garment 0.24 m ² .	Back – excluding the reflective tapes, the background material area is 0.39 m ² .	Conforms
 Rear of garment including the 150 mm shirt tail 0.30 m². Overall length at front not to exceed 710mm. 	Front length is 710 mm.	Conforms

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CONFORMANCE TO NZ TRANSPORT AGENCY SPECIFICATIONS, EDITION 4 OF PART 8 COPTTM, SECTION B, FEBRUARY 2017 (TTMC-W17) & TECHNICAL NOTE: REVISED REQUIREMENT FOR HIGH VISIBILITY **GARMENTS, SEPTEMBER 2017 Section B3 High Visibility Garments**

Garment Design - continued B3.4.1 Sleeveless vest

Requirement	Results	Conformance
Background high visibility material must	Background high visibility material	Conforms
encircle the torso from the top, with no other	encircles the torso from the top.	
colour except for:	The exclusions are:	
-Specified retro-reflective material	-Specified retro-reflective material	
-Permitted front opening		
-Permitted logo and technical ID area		
A permitted front opening to accommodate a	The garment has a black zip front	Conforms
zip fastener or similar closing device may be	opening, with zip covered by an overlap of	
no wider than 25mm.	the background material.	
Buttons, domes and similar closure devices		
must match the colour of the garment but		
need not to be compliant.		
Compliant retro-reflective material must be	There are vertical strips placed over the	Conforms
positioned to comply with the pattern in	shoulders. The strips join up with a hoop	
Figures 1 & 2A:	on the front and the back (front & back -	
- belt and braces (front & back) or cross	belt and braces pattern).	
configuration at the back.		
- a strip of complying retro-reflective	There is an additional retro-reflective tape	Conforms
material must be located on the back	at the bottom of the garment positioned	
of the garment from side seam to side	54 mm from the bottom hem.	
seam positioned 50 ±5mm from the		
bottom hem.	The vertical strips are:	Conforms
- each brace must be spaced 170mm	front – 300 mm apart	
Minimum apart at the belt, front and back.	back – 310 mm apart	
- Figure 5 diagrams state that the length from		
the highest point of the shoulder to the waist	Length from the highest point of the	Conforms
tape must be 530 ±20 mm.	shoulder to the bottom waist hoop is:	
	front – 540 mm	
	back 540 mm	
STMS only – The optional retroreflective	N/A	N/A
cross configuration on the back of a garment		
is not permitted.		

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Date: 5.1.16

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Section B3.4.2.1 STMS

Requirement	Results	Conformance
The background colour must be fluorescent or non-fluorescent yellow to conform with AS/NZS 1906.4:2010.	N/A	N/A
Must be on a retro-reflective orange panel on the back and front left as per Fig 2 $-$ front 150 x 150 mm , back 300 x 150 mm, both ± 10 mm	N/A	N/A
Lettering must be black Helvetica Bold Front 50 <u>+</u> 2mm high Back 100 +2mm high		

Optional MTC Garment Sleeve Section B3.4.2.2

Requirement	Results	Conformance
The sleeve background colour must be fluorescent or non-fluorescent yellow to conform with AS/NZS 1906.4:2010.	N/A	N/A
Must have a compliant retro-reflective hoop on the arm above the elbow and between the elbow and the wrist.	N/A	N/A



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Front





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Back





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