



No. 1314082.7

(Please quote this number in all correspondence)

CLIENT:

Pan Products Ltd. PO Box 396 Dargaville 0340

SAMPLE RECEIVED FROM:

Pan Products Ltd.

Date: 24.1.20

SAMPLE DESCRIPTION:

PCP1270 orange polo, size L.

Attn.: Nathan Cottle

Client Order No.:

Client Reference:

1 of 8

## CONFORMANCE TO NZ TRANSPORT AGENCY SPECIFICATIONS, EDITION 4 OF PART 8 COPTTM, SECTION B, NOVEMBER 2018 (TTMC-W17)

## **Section B3 High Visibility Garments**

	Conformance
Background fabric Compliance, Section B3.1.1	Conforms
( this section is not covered in full by IANZ accreditation )	(as stated by SGS report no. SHSL1608202322TX)
Retro- reflectivity, Section B3.1.2	Conforms
( this section is not covered in by IANZ accreditation )	(as stated by Vartest report no. SHUNDE.A072313A1)
Retro-reflectivity, Section B3.1.2 – Orange Red Material for STMS Panel	N/A
(this section is not covered in full by IANZ accreditation)	
Logos, Section B3.2	N/A
Garment Compliance, Section B3.3	Conforms
Garment Design, Section B3.4.1	Conforms
Miscellaneous garments, Section B3.4.5	Conforms
STMS, 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 28/01/2020

**New Zealand Wool Testing Authority Ltd** 

Cnr Bridge & Lever Streets, PO Box 12065 Ahuriri, 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 SGS report no.	Conforms
Fluorescent or non-fluorescent orange-red or yellow to conform to AS/NZS 1906.4:2010, measured both dry & wet, light, perspiration and wash fastness.	SHSL1608202322TX.	(as stated by SGS report)

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

Requirement	Results	Conformance
Retro- reflectivity material must comply with specification " R " of AS/NZS 1906.4 :2010	See Vartest report no. SHUNDE.A072313A1.	Conforms (as stated by Vartest report)
Retro-reflective orange red material for STMS must comply with the colour specification for Class F background material as noted in Clause B3.1.2 (photometric performance & colour coordinates only).	N/A	N/A

Section B3.2 Logos

Requirement	Results	Conformance
Lettering, symbols or logos must be on the wearer's upper front left of the garment (N/A to STMS)	N/A	N/A
The maximum area of any clear plastic pocket including items above is 7500mm <sup>2</sup> (100 x 75 mm) (N/A to STMS)	N/A	N/A
A technical recognition ID, max 30mmx30mm (900 mm <sup>2-)</sup> 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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## CONFORMANCE TO NZ TRANSPORT AGENCY SPECIFICATIONS, EDITION 4 OF PART 8 COPTTM, SECTION B, NOVEMBER 2018 (TTMC-W17) **Section B3 High Visibility Garments**

Section B3.3. Garment Compliance

Requirement	Results	Conformance
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 Figure 5 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 50mm wide.	The tape is 51mm 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: 110 cm	Conforms
The letters TTMC-W17 must be included on the garment label.	The letters are included on the garment label.	Conforms

### Section B3.4 Garment Design

B3.4.1, B3.4.5 Miscellaneous garments- such as polo shirts, woven shirts, T shirts and polar fleece garments, (small size) 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 150	There is a shirt tail on this garment. It is	Conforms
±5mm longer than the front.	150mm longer than the front.	
The minimum qualifying area measurement of	Front – excluding the reflective tapes,	Conforms
background high visibility material for the	orange button front opening, orange zip	
recognised 100-105 cm chest size garment not	pocket, orange underarm gussets and	
covered by retro-reflective material or printing	collar (in its normal position), the	
must be:	background material area is 0.27 m <sup>2</sup> .	
- Front of garment <b>0.24 m²</b> .		
- Rear of garment including the 150mm shirt tail	Back – excluding the reflective tapes	Conforms
0.30 m <sup>2</sup> .	and underarm gussets, the background	
Sleeves are not included in this area.	material area is 0.31 m <sup>2</sup> .	
Overall length at front not to exceed 710mm.		
	Front length is 700mm.	Conforms

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Garment Design - continued B3.4.1, B3.4.5 Miscellaneous garments- such as polo shirts, woven shirts, T shirts and polar fleece garments.

Requirement	Results	Conformance
Background high visibility material must encircle the torso from the top, with no other colour except for: - Specified retro-reflective material - Permitted front opening - Permitted logo and technical ID area	Background high visibility material encircles the torso from the top. The exclusions are: - Specified retro-reflective material - Permitted front opening	Conforms
A permitted front opening to accommodate a zip fastener or similar closing device may be no wider than 25mm.  Zip colour may be black but a colour matching the garment colour is preferred.  Buttons, domes and similar closure devices must match the colour of the garment but need not to be compliant.	The garment has an orange button front opening that is 11mm diameter. The opening is down to the mid chest front of the garment.	Conforms
Garment may incorporate an underarm gusset as per AS/NZS 4602.1:2011 or up to three 10mm (max) eyelets per sleeve to provide underarm ventilation. Eyelets should preferably match the colour of the garment.	Orange gussets: Length – 100mm Width – 60	Conforms
Compliant retro-reflective material must be positioned to comply with the pattern in Figure 5: - belt and braces (front & back) or cross configuration at the back.	There are vertical strips placed over the shoulders. The strips join up with a hoop on the front and the back (front - belt and braces pattern / back – cross configuration).	Conforms
top and bottom of cross configuration must align vertically.	Top and bottom of cross configuration is aligned vertically.	Conforms
<ul> <li>a strip of complying retro-reflective material must be located on the back of the garment from side seam to side seam positioned 50 <u>+</u>5mm from the bottom hem.</li> </ul>	There is an additional retro-reflective tape at the bottom of the garment positioned 53mm from the bottom hem.	Conforms

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Garment Design - continued B3.4.1, B3.4.5 Miscellaneous garments- such as polo shirts, woven shirts, T shirts and polar fleece garments

Requirement	Results	Conformance
Each brace must be spaced 170mm minimum apart at the belt, front and back.	The vertical strips are: front - 305mm apart back - 262mm apart	Conforms
Figure 5 diagram state that the length from the highest point of the shoulder to the waist tape must be <b>530</b> ±20 mm.	Length from the highest point of the shoulder to the bottom waist hoop is: front - 525mm back - 525mm	Conforms
STMS only – The optional retroreflective cross configuration on the back of a garment is not permitted.	N/A	N/A
Long sleeved garments must have a compliant retro-reflective hoop on the arm between the elbow and the wrist.	N/A	N/A
An optional hoop may be placed on the sleeves above the elbow.	N/A	N/A
Long sleeves must be the same high visibility colour as the torso to a point no less than midway between the elbow and the wrist.	N/A	N/A
Short sleeves must remain the same colour as the garment.	The short sleeves are the same colour as the garment.	Conforms

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Garment Design - continued B3.4.1, B3.4.5 Miscellaneous garments- such as polo shirts, woven shirts, T shirts and polar fleece garments

Requirement Results Conformance Non-compliant colours may not be located There are no non-compliant colours Conforms within the qualifying area as trim or pocket flaps within the qualifying area as trims or pocket flaps. Collars may be non-complaint colour and are The collar is non-compliant colour and Conforms deducted from the qualifying torso area has been deducted from the area. Non qualifying material may be placed below NA N/A the hoop at the midpoint between the elbow and wrist.

### Section B3.4.2.1 STMS

Requirement	Results	Conformance
The background colour must be fluorescent or non-fluorescent yellow to conform to AS/NZS 1906.4:2010.	N/A	N/A
There must be a retro-reflective orange panel on the back and front left as per Fig 2A (as per Technical Note 22 February 2019): front 100 x 100 mm, back 250 x 130 mm, both ±10 mm Lettering must be black.  Helvetica Bold Front 35 ±5mm high Back 85 +5mm high	N/A	N/A

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 hoops on the arm above the elbow and between the elbow and the wrist on both sleeves.	N/A	N/A

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## **Front**



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