



No. 1206923.3

(Please quote this number in all correspondence)

CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

SAMPLE RECEIVED FROM:
Pan Products Ltd.

Date: 21.11.17

SAMPLE DESCRIPTION:
PCP1221-FLOR-L orange S/S microfiber 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, SEPTEMBER 2017 (TTMC-W17) (TECHNICAL NOTE: REVISED REQUIREMENT FOR HIGH VISIBILITY GARMENTS)

Section B3 High Visibility Garments

	Conformance
Background fabric Compliance, Section B3.1.1 (this section is not covered in full by IANZ accreditation)	Conforms (see NZWTA report no. 1126301.9)
Retro- reflectivity, Section B3.1.2 (this section is not covered in by IANZ accreditation)	Conforms (as stated by SGS report no. SHSL1302029053TX & NZWTA report no. 1110548.3)
Retro-reflectivity, Section B3.1.2 – Orange Red Material for STMS Panel (this section is not covered in by IANZ accreditation)	N/A
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	N/A



Tests indicated as not accredited are outside the scope of the laboratory's accreditation

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01/12/2017

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22 Bridge Street, PO Box 12065

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Section B3 High Visibility Garments

Section B3.1.1 Fabric Colour Compliance

Note: this section is not covered in full by IANZ accreditation

Requirement	Results	Conformance
Background material : 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.	See NZWTA report no. 1126301.9.	Conforms

Section B3.1.2 Retro-reflectivity

Note: this section is not covered by IANZ accreditation

Requirement	Results	Conformance
Retro- reflectivity Must comply with specification " R " of AS/NZS 1906.4 :2010	See SGS report no.SHSL1302029053TX & NZWTA report no. 1110548.3.	Conforms (as stated by SGS & NZWTA reports)
Retro-reflective orange red material for STMS must comply with the colour specification for Class F background material as noted in Clause B3.1.1.	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 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 High Visibility Garments

Section B3.3, Garment Compliance

Requirement	Results	Conformance
AS/NZS 4602.1:2011/Amendment 1:Nov. 2016 States that 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- it has no breaks at the sides of garments.	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 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: 113 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 +5mm longer than the front.	There is a shirt tail on this garment. It is 155 mm longer than the front.	Conforms
The minimum qualifying area measurement of background high visibility material for the recognised 100-105 cm test size garment not covered by retro-reflective material or printing must be: - Front of garment 0.24 m² . - Rear of garment including the 150 mm shirt tail 0.30 m² . Sleeves are not included in this area. Overall length at front not to exceed 710mm.	Front – excluding the reflective tapes and collar (in its normal position), the background material area is 0.31 m² . Back – excluding the reflective tapes, the background material area is 0.33 m² . Front length is 705 mm.	Conforms Conforms Conforms

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Section B3 High Visibility Garments

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.	The garment has an orange buttons front opening that is 11mm diameter. The opening is down to the mid chest front of the garment.	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. - a strip of complying retro-reflective material must be located on the back of the garment from side seam to side seam positioned 50 ±5mm from the bottom hem. - each brace must be spaced 170mm minimum apart at the belt, front and back. - Figure 5 diagrams state that the length from the highest point of the shoulder to the waist tape must be 530 ±20 mm .	There are vertical strips placed over the shoulders. The strips join up with a hoop on the front and the back (front & back - belt and braces pattern).	Conforms
	There is an additional retro-reflective tape at the bottom of the garment positioned 50 mm from the bottom hem.	Conforms
	The vertical strips are: front – 294 mm apart back – 290 mm apart	Conforms
	Length from the highest point of the shoulder to the bottom waist hoop is: front – 545 mm back – 545 mm	Conforms
STMS only – The optional retroreflective cross configuration on the back of a garment is not permitted.	N/A	N/A

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Section B3 High Visibility Garments

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



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Section B3 High Visibility Garments

Section B3.4.2. 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
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 Lettering must be black Helvetica Bold Front 50 +2mm high Back 100 +2mm high	N/A	N/A



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Front

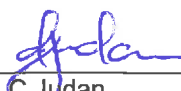


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