



No. 1206921.7

(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:
PCR4030 orange jacket, 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. 1160984.9)
Retro-reflectivity, Section B3.1.2 (this section is not covered 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
Long sleeved coat , Section B3.4.3	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

New Zealand Wool Testing Authority Ltd

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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. 1160984.9.	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 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 3 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: 138 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, B3.4.3 Long Sleeve Coat, (small size) general requirements – based on AS/NZS 4602.1:2011/Amendment 1:Nov. 2016 with additional requirements.

Requirement	Results	Conformance
The shirt tail design is not applicable for Long Sleeve Coat.	There is no shirt tail on this jacket.	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 0.35 m² - Rear of garment 0.35 m² Sleeves are not included in this area. The measurement rectangle must extend to a minimum of 830 mm front and back.	Front – excluding the reflective tapes and orange eyelets, the background material area is 0.55 m² .	Conforms
	Back – excluding the reflective tapes and eyelets, the background material area is 0.56 m² .	Conforms
	Front length – 987 mm Back length – 997 mm	Conforms

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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 a zip front opening, with zip covered by an overlap of the background material.	Conforms
Compliant retro-reflective material must be positioned to comply with the pattern in Figure 3 - 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. - this bottom strip may completely encircle the garment. - each brace must be spaced 170mm minimum apart at the belt, front and back . - Figure 3 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). There is an additional retro-reflective tape at the bottom of the garment positioned 50 mm from the bottom hem. The bottom strip completely encircles the garment. The vertical strips are: front – 303 mm apart back – 300 mm apart Length from the highest point of the shoulder to the bottom waist hoop is: front – 550 mm back – 550 mm	Conforms Conforms Conforms 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, B3.4.3 Long Sleeve Coat


Requirement	Results	Conformance
Placement of a compliant retro-reflective hoop on the arm between the elbow and the wrist, on each sleeve.	There is a hoop above the elbow and between the wrist and elbow on both sleeves.	Conforms
An optional hoop may be placed on the sleeves above the elbow, on each sleeve.	There is an optional hoop placed on the sleeves above the elbow.	Conforms
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.	The sleeves are the same high visibility colour as the body.	Conforms
Short sleeves must remain the same colour as the garment.	N/A	N/A
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 trim or pocket flaps.	Conforms
Collars may be non-complaint colour and are deducted from the qualifying torso area	N/A	N/A
Figure 3 illustrates that the jacket body is to be made from qualifying high visibility material and tape.	The jacket body is made from qualifying high visibility material and tape.	Conforms
Non qualifying material may be placed below the hoop at the midpoint between the elbow and wrist of each sleeve.	NA	N/A



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Section B3 High Visibility Garments

Section B3.4.2. STMS

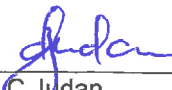
Requirement	Results	Conformance
The background colour must be fluorescent or non-fluorescent yellow to conform to AS/NZS 1906.4:2010.	N/A	N/A
Must be on a retro-reflective orange panel on the back and front left as per Fig 2 – front 150 x 150 mm, back 300 x 150 mm, both ±10 mm Lettering must be black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



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Front




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Back

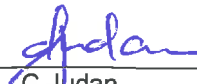


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