



No. 1214498.6

(Please quote this number in all correspondence)

CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

SAMPLE RECEIVED FROM:
Pan Products Ltd.

Date: 19.1.18

Attn.: Nathan Cottle

SAMPLE DESCRIPTION:
PCV1500 orange vest, size L.

Client Order No.:

Client Reference:

1 of 7

CONFORMANCE TO NZ TRANSPORT AGENCY SPECIFICATIONS, EDITION 4 OF PART 8 CoPTM, 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 (this section is not covered in full by IANZ accreditation) | Conforms (as stated by Qualspec report no. CS17070077Revised1) |
| 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 | Conforms |
| 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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Signatory

C Judan
Signatory

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Section B3 High Visibility Garments

Section B3.1.1 Fabric Colour Compliance

| 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 Qualspec report no. CS17070077Revised1. | Conforms (as stated by Qualspec report) |

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) . | Size: 99 mm x 73 mm (7,227 mm ²) Placed on the left chest. | Conforms |
| 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**

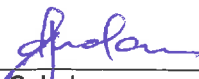
| Requirement | Results | Conformance |
|---|---|-------------|
| AS/NZS 4602.1:2011 The tape must be a complete horizontal hoop at approximately waist level. A break at the front of no more than 25mm is permitted (see also Figures 1 and 2 CoPTTM). | The tape is a complete horizontal hoop. There is a break at the front of length 22 mm. 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 an overlap. | There is a shirt tail on this vest. It is 150 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 . Overall length at front not to exceed 710mm. | Front – excluding the reflective tapes, orange zip front opening and clear plastic pocket, the background material area is 0.27 m ² . Back – excluding the reflective tapes, the background material area is 0.36 m ² . Front length is 710 mm. | Conforms Conforms Conforms |

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Garment Design – continued B3.4.1 Sleeveless vest

| 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. Buttons, domes and similar closure devices must match the colour of the garment but need not to be compliant. | The garment has an orange zip front opening that is 7 mm wide. The opening is down to the entire front of the garment. | Conforms |
| Compliant retro-reflective material must be positioned to comply with the pattern in Figures 1 & 2A: - 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). There is an additional retro-reflective tape at the bottom of the garment positioned 53 mm from the bottom hem. The vertical strips are: front – 387 mm apart back – 281 mm apart Length from the highest point of the shoulder to the bottom waist hoop is: front – 540 mm back – 545 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 B3.4.2.1 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 Lettering must be black Helvetica Bold Front 50 +2mm high Back 100 +2mm 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 hoop on the arm above the elbow and between the elbow and the wrist. | N/A | N/A |



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Front

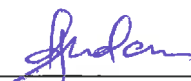


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