



NZWTA



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

No. 1260552.3

(Please quote this number in all correspondence)

CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

Attn.: Nathan Cottle

SAMPLE RECEIVED FROM:
Pan Products Ltd.

SAMPLE DESCRIPTION:
PCR4011-FLOR-L – Caution Storm Pro TTMC-W17
Fleece Lined Vest.

Date: 21.12.18

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 (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 in full 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 full by IANZ accreditation)	N/A
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

"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer
Signatory


G Judan
Signatory

04/01/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

Attn.: Nathan Cottle

Client Order No.:

SAMPLE RECEIVED FROM:
Pan Products Ltd.

SAMPLE DESCRIPTION:
PCR4011-FLOR-L – Caution Storm Pro TTMC-W17
Fleece Lined Vest.

Client Reference:

Date: 21.12.18

2 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

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 NZWTA report no. 1160984.9.	Conforms

Section B3.1.2 Retro-reflectivity (Note: this section is not covered in full 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 B3.1.2 (photometric performance & colour coordinates only).	N/A	N/A


Section B3.2 Logos

Requirement	Results	Conformance
Lettering , symbols or logos must be on the 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

"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer
Signatory


C Judan
Signatory

04/01/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

Attn.: Nathan Cottle

Client Order No.:

SAMPLE RECEIVED FROM:
Pan Products Ltd.

SAMPLE DESCRIPTION:
PCR4011-FLOR-L – Caution Storm Pro TTMC-W17
Fleece Lined Vest.

Client Reference:

Date: 21.12.18

3 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

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 50mm 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 garment has no 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 146mm 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, the background material area is 0.31 m ² .	Conforms
	Back – excluding the reflective tapes, the background material area is 0.36 m ² .	Conforms
	Front length is 705mm.	Conforms

"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer
Signatory


C Judan
Signatory

04/01/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

Attn.: Nathan Cottle

Client Order No.:

SAMPLE RECEIVED FROM:
Pan Products Ltd.

SAMPLE DESCRIPTION:
PCR4011-FLOR-L – Caution Storm Pro TTMC-W17
Fleece Lined Vest.

Client Reference:

Date: 21.12.18

4 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

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 a black 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 Figures 1 & 2A: - belt and braces (front & back) or cross configuration at the back. - top and bottom of cross configuration must align vertically. - 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 - belt and braces pattern / back – cross configuration). Top and bottom of cross configuration is aligned vertically. There is an additional retro-reflective tape at the bottom of the garment positioned 52mm from the bottom hem. The vertical strips are: front - 315mm apart back - 290mm apart Length from the highest point of the shoulder to the bottom waist hoop is: front - 550mm back - 550mm	Conforms Conforms Conforms Conforms Conforms
STMS only – The optional retroreflective cross configuration on the back of a garment is not permitted.	N/A	N/A

"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer
Signatory

C Judan
Signatory

04/01/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

Attn.: Nathan Cottle

Client Order No.:

SAMPLE RECEIVED FROM:
Pan Products Ltd.

SAMPLE DESCRIPTION:
PCR4011-FLOR-L – Caution Storm Pro TTMC-W17
Fleece Lined Vest.

Client Reference:

Date: 21.12.18

5 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

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 ± 2 mm high (Technical Note) Back 100 ± 2 mm high (Technical Note) Dispensation Jan. 2018: ± 5mm front & back.	N/A	N/A

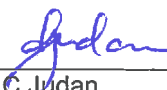
Optional MTC Garment Sleeve Section B3.4.2.2

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

"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer
Signatory


C Judan
Signatory

04/01/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



NZWTA



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

No. 1260552.3

(Please quote this number in all correspondence)

CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

Attn.: Nathan Cottle

Client Order No.:

SAMPLE RECEIVED FROM:
Pan Products Ltd.

SAMPLE DESCRIPTION:
PCR4011-FLOR-L – Caution Storm Pro TTMC-W17
Fleece Lined Vest.

Client Reference:

Date: 21.12.18

6 of 7

Front



"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer
Signatory


C Judan
Signatory

04/01/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



NZWTA



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

No. 1260552.3

(Please quote this number in all correspondence)

CLIENT:
Pan Products Ltd.
PO Box 396
Dargaville 0340

Attn.: Nathan Cottle

Client Order No.:

SAMPLE RECEIVED FROM:
Pan Products Ltd.

SAMPLE DESCRIPTION:
PCR4011-FLOR-L – Caution Storm Pro TTMC-W17
Fleece Lined Vest.

Client Reference:

Date: 21.12.18

7 of 7

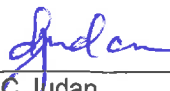
Back



"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer
Signatory


C Judan
Signatory

04/01/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz