



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

No. 1578065.3

(Please quote this number in all correspondence)

CLIENT:
Esko Safety
117 Connett Road
Bell Block, New Plymouth

SAMPLE RECEIVED FROM:
Esko Safety

Date Received: 4.8.25

Attn.: Nathan Cottle

SAMPLE DESCRIPTION:
PCV1500-FLOR vest, size L.

Client Order No.:

Client Reference:

1 of 9

NZTA E06:2023 - CONFORMANCE TO WAKA KOTAHI (NZ TRANSPORT AGENCY) SPECIFICATION FOR THE DESIGN AND MANUFACTURE OF HIGH VISIBILITY SAFETY GARMENTS FOR TEMPORARY TRAFFIC CONTROL PURPOSES (EDITION 1, AUGUST 2023)

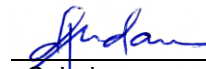
Date Tested: 7/8/2025

	Conformance
General, Section 5	Conforms
Background Fabric Compliance, Section 6.1.1	Conforms (as stated by Qualspec report no. CS17070077Revised1)
Retro-reflectivity, Section 6.1.2 (this section is not covered in by IANZ accreditation)	Conforms (as stated by AWTA report no. 23-003471)
Logos, Section 6.2	N/A
Garment Compliance, Section 6.3	Conforms
Garment Design, Section 7.1	Conforms
Sleeveless Vest, Section 7.2.1	Conforms

Note: This report is a reissue and supersedes NZWTA Report No. 1214498.6, dated 25/01/2018.

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Section 5 – General

Requirement	Results	Conformance
The letters TTMC-W23 must be on the primary permanent garment sewn in label.	The letters are included on the garment label.	Conforms
The same label must include country of origin, fibre content and care instructions.	They are included on the garment label.	Conforms
AS/NZS 1906.4 & AS 4602.1 may be added	They are included on the garment label.	/

Section 6 – High Visibility Garments

Requirement	Results	Conformance
6.1.1 – Colour Background material: Fluorescent or non-fluorescent orange-red or yellow green (lime yellow) must comply with AS/NZS 1906.4:2023, clause 2.3 or 2.4, & 2.5.	See Qualspec report no. CS17070077Revisaed1.	Conforms (as stated by Qualspec report)
6.1.2 – Retroreflectivity (not covered by IANZ accreditation) Retroreflective including segmented tapes must comply with specification for Class R of AS/NZS 1906.4:2023 as per clause 3, table 3.1. (See note 4 of EO6 for uncertainty protocol)	See AWTa report no. 23-003471.	Conforms (as stated by AWTa report)

Section 6.2 – Logos

Note: Garments must not display any unapproved lettering, symbols, patches, panels, trims or logos or add any design elements not authorised by Waka Kotahi.

Requirement	Results	Conformance
6.2.1 – Primary Logo - Either the wearer's company ID on the wearer's upper front left maximum area of 7500mm ² (e.g. 100mm x 75mm) or - The maximum area of clear plastic pocket (for business card similar ID) is 7500mm ² (e.g. 100mm x 75mm). Note: N/A to STMS garment because this position is for STMS badge.	N/A	N/A

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Section 6.2 – Logos (continued)

Note: Garments must not display any unapproved lettering, symbols, patches, panels, trims or logos or add any design elements not authorised by Waka Kotahi.

Requirement	Results	Conformance
6.2.2 – Material Technical Recognition ID Panel A technical recognition ID (where required for safety reasons), maximum of 1500 mm ² (e.g. 60mm x 25mm) may only be added to the wearer's upper front right side.	N/A	N/A
6.2.3 – Garment Manufacturer's Naming Label - A manufacturer's label to a maximum of 1000mm ² (e.g. 50mm x 20mm) may be sewn or printed to the lower sleeve or leg of the garment (refer to position of non-compliant coloured material in Fig. 5, 7, 8, 9 & 10) even if this area remains as a compliant colour. - For garments including a non-compliant shirt type collar (per Fig. 2) a logo to maximum area of 225mm ² (e.g. 15mm x 15mm) may be added at the centre back of the collar.	N/A	N/A

Section 6.3 – Garment Compliance

Requirement	Results	Conformance
- The tape must be a complete horizontal hoop at approximately waist level except for the permitted front opening. - A break at the front of no more than 25mm is permitted (see Figure 3). - Overalls may have max. 50mm breaks at the sides to enable pocket openings (refer to section 7.3(e)).	The tape is a complete horizontal hoop. There is a break at the front of length 24mm. There are no breaks at the sides or in the braces.	Conforms
Retroreflective tapes must be no less than 50mm wide.	The tape is 50mm wide.	Conforms

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Section 6.3 – Garment Compliance (continued)

Requirement	Results	Conformance
The braces and cross configuration must meet at the top of the shoulder and be aligned at the waist hoop per Figure 3 for vests.	N/A	N/A
Compliance must be achieved for a recognised garment designed for a size 100-105 cm body chest measurement.	The size submitted is size L Body chest measurement: 124 cm	Conforms
If a hood is included the colour must be the compliant body colour. The hood area is not used to achieve area compliance. When down no non-compliant colour is to be visible with exception of any draw string that preferably matches the garment colour or is black.	N/A	N/A

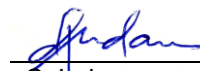
Section 7 – Garment Design (Specification based on AS 4602.1:2011 Amd 2:2020)

Section 7.1 - General

Requirement	Results	Conformance
7.1(a) – Garment Closures - Garment closures for the front of a garment such as zips, buttons, domes or hook and loop fastenings may be black but a colour matching the garment colour is preferred but need not be compliant. - Pocket closures may use the same closure type as above, but must match the background material but need not be compliant.	The garment has an orange front zip opening that is 8 mm wide and runs down the entire front of the garment.	Conforms
7.1(b) – Retroreflective Configuration Cross configuration is permitted on the back. The top and bottom of the cross configuration must align vertically (see Fig. 3).	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

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Section 7 – Garment Design (Specification based on AS 4602.1:2011 Amd 2:2020)

Section 7.1 – General (continued)

Requirement	Results	Conformance
7.1(c) – Garment Underarm Gussets - Gussets must comply with AS/NZS 4602.1:2010, clause 6.4.4 – max. size 100mm x 100mm either direction from the underarm point (see Fig. 1). They do not have to be compliant but must approximate the garment colour. - Four 10mm max. eyelets may be used instead (see Fig.1). They do not have to be a compliant colour but must approximate the garment colour.	N/A	N/A
7.1(d) – Garment Binding Garment binding added to the edge should be compliant and match the garment body. If not compliant, it has to approximate the garment colour. The maximum width visible externally is 10mm.	Binding colour – orange Width – 8mm	Conforms
7.1(e) – Garment Pockets If a slit type or patch type pocket (see Fig. 8) is across a retroreflective tape, a break in the tape must not be evident. This can be achieved by an overlap of tape into the pocket.	N/A	N/A
7.1(f) – Addition of “D” Rings - “D” ring (to enable an object to be attached) may only be attached to the bottom hem. - Loop of compliant fabric on wearers upper chest for comms device- approved by Waka Kotahi Nov 23	N/A	N/A
7.1(g) – Collars - Non-compliant collar areas are deducted from the qualifying torso area. - The max. front neck drop for a V-neck or scoop neck is 14 cm (see Fig. 2).	N/A	N/A

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Section 7.2 – Sleeveless Vests

Requirement	Results	Conformance
7.2.1(a) The measurement in Appendix A of AS/NZS 4602.1 is extended below the waist to the bottom of the garment. The front length must not exceed 710mm.	Front length is 695mm.	Conforms
7.2.1(b) 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 153mm longer than the front.	Conforms
7.2.1(c) The shirt tail may be split, provided there is an overlap. A hook & loop fastening is recommended.	N/A	N/A
7.2.1(d) Background high visibility material must encircle the torso from the top with no other colour except for: - Specified retroreflective material - Permitted primary logo area - Permitted front opening - Permitted fabric technical ID label	Background high visibility material encircles the torso from the top. The exclusions are: - Specified retroreflective material - Permitted front opening	Conforms
7.2.1(e) The minimum qualifying area measurement of background high visibility material for the recognised 100-105cm test size not covered by retroreflective material, logos or printing must be: - Front of garment 0.24 m ² - Rear of garment including shirt tail 0.3 m ²	Front – excluding the reflective tapes and orange zip front opening, the background material area is 0.27 m ² . Back – excluding the reflective tapes, the background material area is 0.34 m ² .	Conforms
7.2.1(f) A permitted front opening to accommodate a zip fastener or similar closing device may be no wider than 25mm.	See 7.1(a)	/
7.2.1(g) Compliant retroreflective material must be positioned to comply with the pattern in Fig. 3.	See 7.2.1(h) (i) (j)	/

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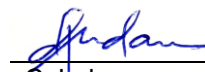
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Section 7.2 – Sleeveless Vests (continued)

Requirement	Results	Conformance
7.2.1(h) The retroreflective elements must form: - Belt & braces pattern. The vertical front & back braces must meet at the shoulders. - A retroreflective material must be positioned on the shirt tail 50 \pm 5mm above the bottom hem. - The length of the vertical strips must be 530 \pm 20mm (see Fig. 3) measured from the highest point of the shoulder.	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 55mm (widest) from the bottom hem. Length from the highest point of the shoulder to the bottom waist hoop is: front - 515mm back - 515mm	Conforms Conforms Conforms
7.2.1(i) Each brace must be spaced a minimum of 170mm apart at the belt, front & back.	The vertical strips are: front - 290mm apart back - 270mm apart	Conforms
7.2.1(j) The back cross configuration as per 7.1(b) must meet the front braces with the top and be aligned vertically with the top of the cross (see Fig 3).	N/A	N/A
7.2.1(k) No manufacturer's label is permitted on a sleeveless vest.	No label	Conforms

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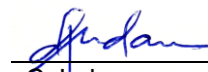
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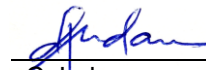
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