

CLIENT:  
Esko Safety  
117 Connett Street  
New Plymouth

Attn.: Nathan Cottle

SAMPLE RECEIVED FROM:  
Esko Safety

SAMPLE DESCRIPTION:  
PCV1500-FLPK vest, size L.

Date Received: 22.7.25

Client Order No.:

Client Reference:

1 of 7

**AS 4602.1:2024 - HIGH VISIBILITY SAFETY GARMENTS  
PART 1: GARMENTS FOR HIGH RISK APPLICATIONS**

**Date Tested: 24/7/2025**

	Conformance
Clause 4.1: Size	Conforms
Clause 5.1 & 5.2: Classification of Garments – Class D/N Level 1	Conforms
Clause 8.2 & 8.3: Background Materials	Conforms (see NZWTA report no. 1469984.7)
Clause 8.4: Retroreflective Materials (This section is not covered by IANZ accreditation)	Conforms (as stated by AWTA report no. 23-003471)
Clause 8.5.1: General	Conforms
Clause 8.5.2: Area of Background Material	Conforms
Clause 8.5.3: Retroreflective Trim	Conforms
Clause 8.5.4: Permitted Openings	Conforms
Clause 8.5.5: Underarm Gussets	N/A
Clause 9: Attachment to Body	Conforms
Clause 10: Durability of Garments (Optional)	Not assessed in this report
Clause 11: Safe Use of Garments	Not assessed in this report
Clause 12.1: Labelling	*
Clause 12.2: Instructions	*
Clause 13: Selection and Safe Use	Not assessed in this report

\* Conformance cannot be stated because the attached label is a substitute. However, the client has submitted a label layout with the correct labelling and instructions. This report will be reissued once a new garment is submitted with the correct label sewn onto it.

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C Judan  
Key Technical Person

30/07/2025

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**AS 4602.1:2024 - HIGH VISIBILITY SAFETY GARMENTS  
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Clause 3 – Terms and definitions in the standard have been referred to when testing this garment.  
 Clause 4 – Reference garments for assessment purposes have been referred to when testing this garment (elbows, underarm, knee, high visibility waist and retroreflective trim waist).  
 Clause 5.1 & 5.2 – Classification of garment end use & classification of garment levels:  
     Class D – Daytime use only.  
     Class N – Night-time use only (Level 1, 2 or 3) & Class N-E (Level 2 or 3).  
     Class D/N – Daytime & night-time use (Level 1, 2 or 3) & Class D/N-E (Level 2 or 3).  
 Clause 5.3 – Classification of materials per AS/NZS 1906.4 – the definitions applied have been used (Class F, Class F(W), Class R, Class RF, Class NF, Class NF(W), Class SP).

Test results for Section 5.2 Class D/N Level 1, covering the torso with or without arms.

**Clause 4.1 - General**

Requirement	Results	Conformance
Compliance must be for a finished garment designed to fit size 100-105 cm body chest measurement.	The size submitted is size L Body chest measurement: 125 cm	Conforms

**Clause 8 – Class D/N Garments**

Requirement	Results	Conformance
8.2 – Fluorescent background materials per AS/NZS 1906.4 (Class F or F(W)).	See NZWTA report no. 1469984.7. Class F	Conforms
8.3 – Non-fluorescent background materials per AS/NZS 1906.4 (Class NF or NF(W)).	N/A	N/A
8.4 – Retroreflective materials per AS/NZS 1906.4 (this test is not covered by IANZ accreditation). - Class R, RF or SP Material - Retroreflective tape must be no less than 50mm wide.	See AWTA report no. 23-003471. Class R  The tape is 50mm wide.	Conforms (as stated by AWTA report)  Conforms

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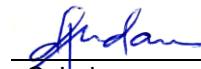
**AS 4602.1:2024 - HIGH VISIBILITY SAFETY GARMENTS  
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**Clause 8.5 – Design of Torso Garments – Class D/N Level 1**

Requirement	Results	Conformance
8.5.1 – General - High visibility background material must extend continuously from the top of the torso for the entire circumference (until the minimum area) except for the specified retroreflective material, permitted front opening and gussets - Side panels of non-conforming material are not permitted in the measurable area. - Contrasting thread is permissible for functional or structural seams.	High visibility background materials encircle the torso from the top of the torso. The exclusions are: - Retroreflective material - Permitted front opening  There are no side panels of non-conforming background material. There is no contrasting thread.	Conforms     Conforms
8.5.2 – Area of Background Material Measured from the top of the high shoulder points to the HV waist (550mm below), per Appendix A. The area shall be not less than 0.20 m <sup>2</sup> on each of the front & back of the garment. The following is deducted from the total area: - Area below a discontinuity in the full width coverage - Area of words, logos, pocket trims, underarm ventilation gussets or retroreflective trims that do not qualify as background material - The area of permitted openings - Collar or area covered by a collar	Front: Measured from the top of the rectangle to 515mm excluding the reflective tapes, pink zip front opening and clear plastic pocket, the area is 0.20 m <sup>2</sup> .  Back: Measured from the top of the rectangle to 515mm excluding the reflective tapes, the area is 0.21 m <sup>2</sup> .	Conforms    Conforms

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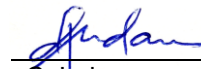
**AS 4602.1:2024 - HIGH VISIBILITY SAFETY GARMENTS  
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**Clause 8.5 – Design of Torso Garments – Class D/N Level 1 (continued)**

Requirement	Results	Conformance
8.5.3 – Retroreflective Trim - (a) (i) A strip over each shoulder placed symmetrically minimum length 400mm and a complete horizontal waist hoop 530 +20/-70mm from the high shoulder point plus: Either approx. vertical strips continuing to the waist hoop per Fig 14(a) & the same at the back or crossed per Fig 14(b). - (a) (ii) Or a second horizontal hoop at mid chest level max 50mm from the armpit per Fig 14(c). - (b) The shoulder strips are replaced with a hoop around each sleeve above the elbow reference point per Fig 15(a)/(b)/(c) and the vertical tapes stop 200mm max from the high shoulder point per Fig 15(a)(b), front and back. The back configuration may be a cross that stops 200mm max from the high shoulder point per Fig 15(b). - Or in addition to the arm hoops – there is a horizontal chest hoop max 50mm from the armpit per Fig 15(c) replacing the vertical tapes. - A break on the horizontal hoops not more than 50mm is permitted at the sides. - A break on the horizontal tapes if at an underarm gusset may be up to 100mm wide, but if more than 50mm, the sleeve hoops must be at the same level per Fig 15(c) and the sleeve hoops may have a break of up to 50mm.	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).  Length from the highest point of the shoulder to the bottom waist hoop is: front - 515mm back - 515mm  There are no breaks at the sides and/or in the braces.  There is a complete horizontal hoop placed at approximately waist level. There is a break at the front of length 23mm.	Conforms  Conforms  Conforms  Conforms
8.5.4 – Permitted Openings Any vertical opening (in addition to neck and armholes) that is for the purpose for donning and doffing the garment shall be no more than 50mm wide.	The garment has a pink zip front opening that is 9 mm wide. The opening extends down the entire front of the garment.	Conforms
8.5.5 – Underarm Gussets Underarm gusset must match the background colour, but do not need to be compliant. Any gusset must be max 100mm wide under each arm and must not extend more than 100mm below the underarm reference point.	N/A	N/A

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## AS 4602.1:2024 - HIGH VISIBILITY SAFETY GARMENTS PART 1: GARMENTS FOR HIGH RISK APPLICATIONS

### Clause 9 – Attachment to Body

Requirement	Results	Conformance
All garments shall include a closure device to secure the garment to the body (e.g. buttons, zips, snap fasteners, hoop and loop).	There is a closure device of zipper type.	Conforms

### Clause 10 – Durability of Garments (optional)

Requirement	Results	Conformance
Testing should be to the lowest number of cycles. Non-compliant mesh materials are exempt from testing.	Not assessed in this report.	N/A

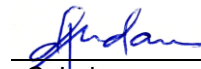
Requirement	Results	Conformance
<b>Clause 11 – Safe Use of Garments</b>	Not assessed in this report.	N/A

### Clause 12.1 – Labelling

Requirement	Results	Conformance
Permanently attached in a visible position (a) Usage label (b) Care label in accordance with AS/NZS 1957 or ISO 3758 (c) If stated a UPF rating to AS 4399 (d) Country of Origin (e) Size (f) Identifying batch or operator number (g) Garment label for trousers that identify the upper garment to complete the ensemble. A label "NOT TO BE WORN SEPARATLEY" Optional -Wet weather suitability per F(W) or NF(W)	As per submitted label layout: (a) Yes (b) Yes (c) No (d) Yes (e) Yes (f) Yes (g) No	*

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**Clause 12.2 – Instructions (Swing Tag)**

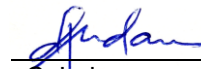
Requirement	Results	Conformance
(a) Storage instructions (b) Serviceability inspection (c) Possible misuse warnings (d) Care and maintenance in service (e) Warning re the use of Class NF regarding conspicuity and optional durability claim per clause 10.	As per submitted label layout: (a) Yes (b) Yes (c) Yes (d) Yes (e) N/A	*

Requirement	Results	Conformance
<b>Clause 13 – Selection and safe use</b>	Refer to Appendix C of the standard for guidance. It is a user guide separate to the labelling requirements of section 12 and is not assessed in this report.	N/A

Note: This report only assesses this garment for the design requirements of AS 4602.1. The test results on the background material and retroreflective material as required by AS 4602.1 (as per AS NZS 1906.4) are referred to but not included.

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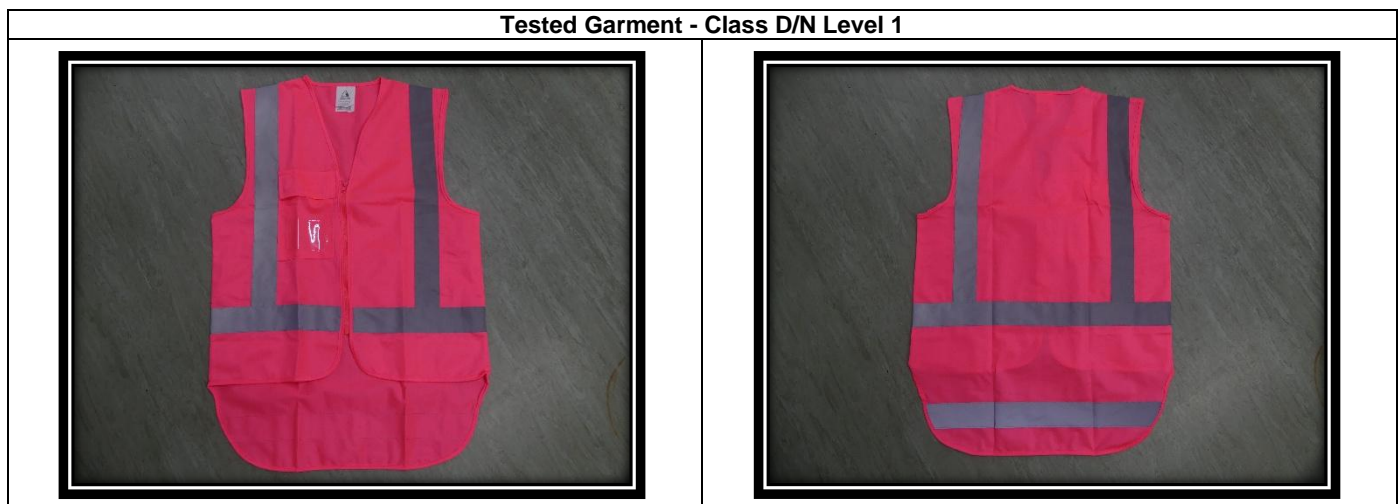
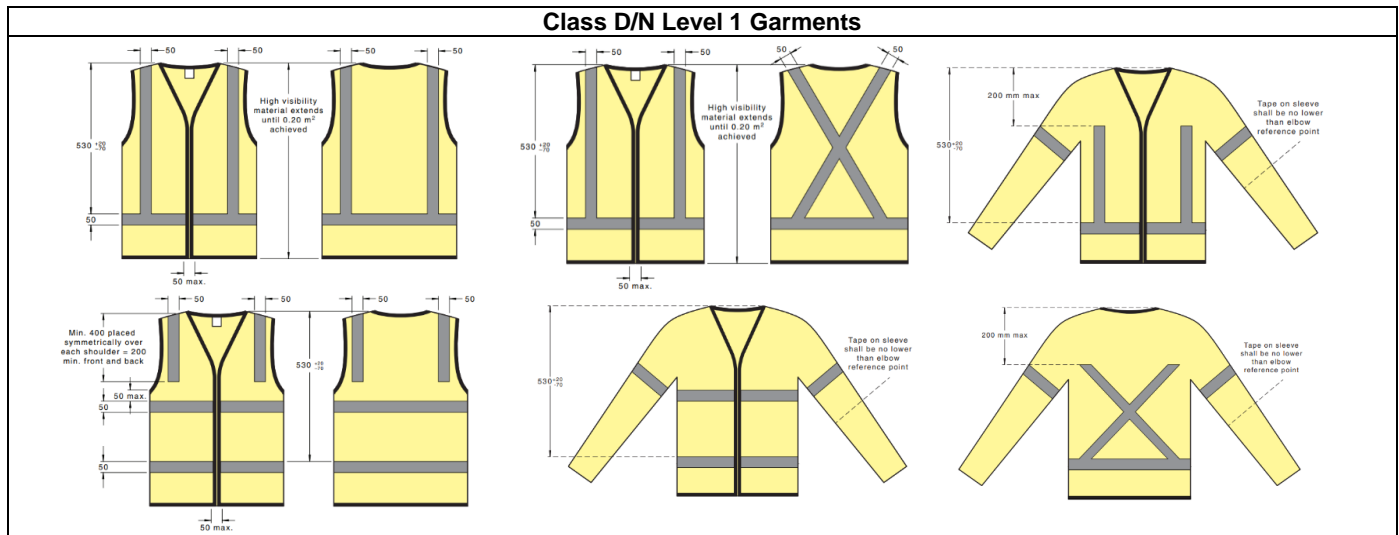
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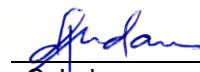
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