



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

**No. 1576305.5A**

(Please quote this number in all correspondence)

CLIENT:  
Esko Safety  
117 Connett Street  
New Plymouth

SAMPLE RECEIVED FROM:  
Esko Safety

Date Received: 22.7.25

Attn.: Nathan Cottle

SAMPLE DESCRIPTION:  
PCV1500-FLYE vest, size L.

Client Order No.:

Client Reference:

1 of 7

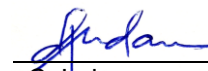
**AS/NZS 4602.1:2011 HIGH VISIBILITY SAFETY GARMENTS & AMENDMENT NO. 1: NOV 2016**  
**PART 1: GARMENTS FOR HIGH RISK APPLICATION**  
**RESULTS FOR GARMENT SUBMITTED: DESIGN ONLY- CONFORMANCE**

**Date Tested: 24/7/2025**  
**Class D – day use only**  
**Class DN – day or night use**  
**Class N – night use only**

	Conformance
CL 5 Classification	Class DN
CL 6 Background material compliance AS/NZS 1906.4	Conforms (as stated by Qualspec report no. CS17070077Revised1)
Retro-reflectivity - AS/NZS 1906.4 (this section is not covered by IANZ accreditation)	Conforms (as stated by AWTA report no. 23-003471)
CL 6.1 Chest Size	Conforms
CL 6.4.1 General Description	Conforms
CL 6.4.2 Area of Background Material	Conforms
CL 6.4.3 Permitted Openings	Conforms
CL 6.4.4 Underarm Gussets	N/A
CL 7.2 / 7.3 RF Tape Width	Conforms
CL 7.3 Design – Placement of Tapes	Conforms
CL 7.3 Figure 2, 3 Dimensions	Conforms
CL 9 Attachment to Body	Not assessed in this report
CL 10 Instructions, Labelling and Marking	Not assessed in this report
CL 11 Selection and safe use	Not assessed in this report

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C Judan

Key Technical Person

30/07/2025



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PART 1: GARMENTS FOR HIGH RISK APPLICATION**

**Class D – day use only  
Class DN – day or night use  
Class N – night use only**

**Clause 6.1**

Garment compliance shall be measured on a finished garment intended to fit a body chest measurement of 100 – 105 cm. This design shall remain consistent throughout the garment size range, grading increasing or decreasing proportionately with the design integrity. It is recommended that the body chest size is included on the garment label.

**Clause 8: Minimum requirements for garments**

**6.4 Design of Garments (CL 6.4.1, 6.4.2)**

**Class D and DN**

Shall comprise a garment or combination of garments of any desired type or style which, as a minimum, encircles the upper torso. High visibility background material as specified Clause 6.2 (for fluorescent background material) or 6.3 (for non-fluorescent background materials) shall extend continuously downwards from the top of the garment and for the entire circumference of the torso, permitted openings and gussets excepted, until at least the minimum specified area of material is provided on both the front and the back of the garment. Side panels of non-conforming material other than underarm gussets are disallowed. Contrasting thread is allowable for functional or structural seam purposes.

The area of background material covering the upper torso on each of the front and back of a garment is measured for conformance with this requirement as per the standard. The area below discontinuity in full width of background material, retroreflective tapes, any areas of nonconforming material such as words, logos, pockets, underarm gussets, permitted openings and collars are deducted from the total area.

The area of background material determined in accordance with Appendix A shall be **not less than 0.2 m<sup>2</sup>** on each of the front and the back of the garment.

**Permitted Openings – CL 6.4.3** Neck and armholes, vertical openings may be provided for the purpose of donning and removing of garment. There shall not be more than one such opening visible from any viewing angle and such opening shall not be more than 50 mm wide.

**Underarm Gussets – CL 6.4.4** Underarm gussets may be provided for wearer comfort purposes. Where provided they shall comprise materials matching the colour of the high visibility background material a maximum of 100 mm wide under each arm and extending not more than 100 mm below the underarm point. The gusset material shall not qualify as background material for the purposes of Clause 6.4.2 (as above mentioned) unless it meets all of the colour specification requirements as AS/NZS 1906.4 including luminance factor.

Class RF material may be counted in the torso as background material because it is a combined performance tape meeting Class R and the daytime colour requirements.

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**AS/NZS 4602.1:2011 HIGH VISIBILITY SAFETY GARMENTS & AMENDMENT NO. 1: NOV 2016**

**Classes D and DN**

**6.2 Fluorescent Background Material** – Except as permitted in Clause 6.3 garments shall be made from background material meeting the requirements of AS/NZS 1906.4 for Class F or a combination of Class F and Class RF material.

**6.3 Non-Fluorescent Background Materials** – Where safety requirement in a particular industry require a garment to be made from a background material that is not capable of taking a fluorescent pigment, e.g. certain natural fibres, a non-fluorescent colour Class NF as specified in AS/NZS 1906.4 may be used in lieu. Users of such garments should be warned that such colours do not have the high visibility properties of fluorescent garments and hence will provide reduced conspicuity for the wearer.

**Class N and DN**

**7.2 Retroreflective materials (refer to Figures 2 and 3 for design and dimensions)**

Retroreflective patches, words, symbols and the like shall be regarded as addition to, and not replacing the patterns of retroreflective strips.

**8 (c) The** minimum requirements for both the material and layout patterns for retroreflective strips (meeting the requirements of AS/NZS 1906.4 Class R and RF) shall be as specified for Class N and Class DN garments in Clause 7.3.

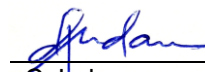
**7.3** Class N and Class DN shall comprise a garment or combination of garments of any desired type or style that, as a minimum, encircles the entire upper torso down to waist level (permitted openings excepted, see Clause 6.4). Strips of retroreflective material shall be applied as specified in Item (a) or (b) as follows:

- (a) A strip over the shoulder, placed symmetrically over the centre top of the shoulder, and a minimum length of 400 mm, plus a complete horizontal hoop at approximately waist level plus either of the following:
  - (i) Approximately vertical strips connecting the shoulder strips to the waist hoop in the front located and either the same at the back or crossed.
  - (ii) A second horizontal hoop at approximately mid chest level located if the vertical or crossed strips in Item (i) are likely to create confusing visual patterns in a particular situation.
- In Australia:** each 50 mm wide strip may be replaced by a pair of strips at least 25 mm with a maximum 30 mm gap between them.
- In New Zealand:** at least 50 mm wide strips are used in all cases.
- (b) Omit up to 400 mm length of strip from the shoulder area on each shoulder of the strip patterns specified in Item (a) and replace it with a hoop around each sleeve above the elbow.

A break in horizontal hoops not more than 50 mm in width, shall be permitted at the sides of garments. If such a break is to be provided at an underarm gusset (see Clause 6.4 – Underarm Gussets) it may be up to 100 mm wide but if more than 50 mm wide, sleeve hoops at the same level shall be provided.

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**AS/NZS 4602.1:2011 HIGH VISIBILITY SAFETY GARMENTS & AMENDMENT NO. 1: NOV 2016**

**APPENDIX B recommended** use of retroreflective strips on sleeves and legs of garments

As per figure B1 – N/A

**Chest Diameter – CL 6.1**

Stated Size: 100-105cm (according to the label layout submitted)

Actual Size: 125 cm (measured 300 mm from the highest point of the shoulder)

**Placement of background material - CL 6.4.1**

The material extends continuously from the top of the garment, for the entire circumference of the torso, permitted openings and gussets excepted.

**Amount of background material on the front- CL 6.4.2 (measured as per Appendix A – the waist is defined as being 530 ±20 mm from the highest point of the shoulder as per CL 4.2 (c))**

Measured from the top of the rectangle to 520mm excluding the reflective tapes, yellow zip front opening and clear plastic pocket, the area is 0.20 m<sup>2</sup>.

**Amount of background material on the back -CL 6.4.2**

Measured from the top of the rectangle to 520mm excluding the reflective tapes, the area is 0.22 m<sup>2</sup>.

**Permitted Openings – CL 6.4.3** Neck and armholes, vertical openings may be provided for the purpose of donning and removing of garment.

The garment has a yellow zip front opening that is 7 mm wide. The opening extends down the entire front of the garment.

**Tape - CL 7.3**

The tape placement design is the same as Figure 2 (a).

The tape width is 50mm.

There is a complete horizontal hoop placed approximately at waist level. There is a 23 mm break at the front.

**Figure 2 (a), (b), (c) and (d)** - Length from the highest point of the shoulder to the waist hoop is 520mm (front & back).

There are no breaks at the sides and/or in the braces.

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**RESULTS FOR GARMENT SUBMITTED: DESIGN ONLY- CONFORMANCE**

**Description:**

**CL 6.1** Chest size – garment compliance shall be measured on a finished garment intended to fit a body chest measured of 100-105 cm.

The garment measured is over this dimension.

**CL 6.4.1** The material extends continuously from the top of the garment, for the entire circumference of the torso, permitted openings and gussets excepted.

This garment **complies** with this requirement.

**CL 6.4.2** Background material on this garment must cover an area greater than 0.2 m<sup>2</sup> on both the front and back.

This garment **complies** with this requirement.

**CL 6.4.3 Permitted Openings** – Neck and armholes, vertical openings may be provided for the purpose of donning and removing of garment. There shall not be more than one such opening visible from any viewing angle and such opening shall not be more than 50 mm wide.

This garment **complies** with this requirement.

**CL 8 (c) & 7.3** The width of the retroreflective strip for both Australia and New Zealand is at least 50 mm wide.

This garment **complies** with this requirement.

**CL 7.3** The application of the retroreflective strips must comply with the minimum requirements of 7.3 Item (a) (i) / (a) (ii) / (b). The attachment of the strips and the design of this garment **meet** the requirements of AS/NZS 4602.1, 7.3 Item (a).

**CL 7.3 Figure 2 (a) (b) (c) and (d)** - The diagrams state that the length from the highest point of the garment to the waist tape must be 530 ± 20 mm.

This garment **complies** with this requirement.

**CL 10.2 Labelling:** recommends that the sewn in label includes the intended wearer's chest measurement.

This garment does not have a sewn in label that has the chest measurement.

**PLEASE NOTE:** This report only assesses this garment for the design requirements of AS/NZS 4602.1:2011. The Chromaticity, luminance and colourfastness tests on the background material required by AS/NZS 4602 (as per AS/NZS 1906.4 Class F or non-fluorescent materials clause 2.4) and the requirements for the retroreflective tape (as per AS/NZS 1906.4 Class R) are not reported.

**Appendix C of AS/NZS 4602.1:2011** contains guidance on the selection and safe use of the garments. We advise that Section C4 be included in any care claim and advice given to the user.

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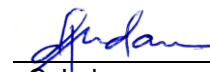
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**Front**



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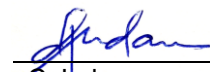
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**Back**



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