



## AMENDMENTS TO THE NZTA CoPTTM

### Revised Requirements for High Visibility Garments: TTMC-W17

#### Background

An update of the Fourth Edition of the CoPTTM has been published to more closely align the NZTA requirements to the Amendment No 1: 2016 of AS/ NZS 4602.1:2011. The NZTA specification is based on AS /NZS 4602.1:2011 and AS NZS 1906.4:2010, with more detail and additional requirements.

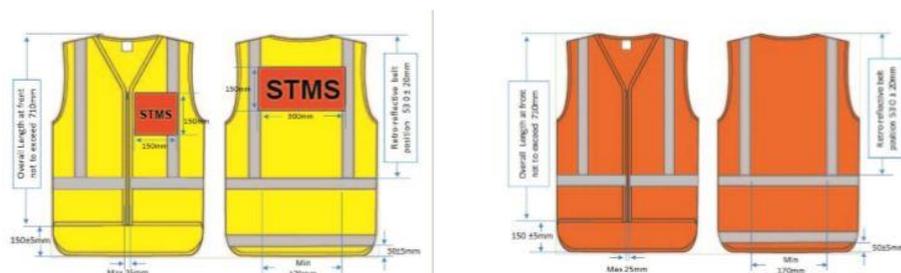
The revision has been published as a Technical Note but will eventually be incorporated into the main document (currently is called 4<sup>th</sup> edition Feb 2017). Until 28 February 2019, garments complying with CoPTTM Edition 4 2017 and the Technical Note will be adjudged equally compliant. From 1 March 2019, all garments manufactured must comply with the specifications of the Technical Note.

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#### List of Amendments

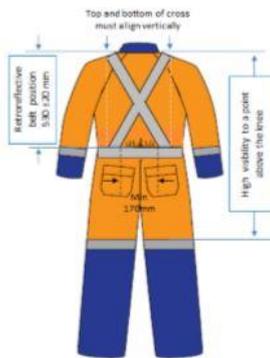
There are several changes in the CoPTTM update. These are often technical in detail, but have been summarised below to more-easily understand the implications of these changes. Additional points are provided where there appears to be some confusion with the requirements of the CoPTTM.

- The specification now states that Amendment 1:2016 of AS NZS 4602.1:2011 has been included.
- The garment to be tested is one that has been designed to fit a chest size of 100-105cm as in AS/NZS 4602.1:2011 (formerly a garment to fit chest size 92-95 cm). This means that now if testing is required to both standards, **only one garment has to be sent.**
- Accordingly the areas of high visibility background material for each design (vests, jackets, overalls and miscellaneous garments ) and other relevant garment dimensions have been adjusted for these larger garments (eg for vests the front qualifying area is now 0.24m<sup>2</sup> instead of 0.21m<sup>2</sup> and the front length is now 710 mm maximum instead of 680 ± 5 mm).
- Any technical recognition ID shall not exceed 30mm x 30mm and be added to the **wearer’s** upper front right side (formerly stated as upper front right).
- The new compliance label is TTMC-W17 (formerly TTMC-W).
- There can be no breaks on the waist hoop except for the permitted 25 mm front opening break. The exception is the overall garment where side breaks are permitted no greater than 50 mm at each side to enable pocket openings (permitted by omission in July 2015 for TTMC-W, but clarified as not permitted in TTMC-W, Feb 2017). Side breaks are permitted in 4602.1:2011).
- The vertical measurement for the position of the waist hoop is now taken from the highest point of the shoulder, so for sloping shoulder designs the measurement point will be higher than the top of the vertical tapes (formerly measured on the vertical strips).





- An addition to the previous version July 2015 is the optional yellow MTC sleeve with reflective hoops for Stop/Go operators (the July 2015 version had a TC vest, but this has been removed).
- The use of underarm gussets for ventilation has been clarified (they are permitted in 4602.1:2011). They must be the same colour visually as the main torso material, but do not have to be compliant. Alternatively for wet weather garments three eyelets max 10 mm diameter per sleeve may also be used, but they do not have to be the same colour as the background material.
- In the July 2015 document the colour of zip, buttons and similar closure devices was not mentioned. This was added in a Technical Note issued September 2016 and is current. Zips may be black but matching the garment colour is preferable. Any buttons, domes or similar closure devices that are placed on compliant material must match the colour of the garments. In addition plackets must be made of compliant material, so any buttons on the placket must match.



- The overall design has been altered to allow the waist tape belt to be the required length from the shoulder and has been facilitated with the use of waist tape gap at the garment sides (in the February 2017 version the vertical tape length was minimum of 380 mm, with no tape gap. This presented difficulties because most overall have pockets. Hence manufacturers had difficulty in designing to conform to both NZTA CoPTTM and 4602.1:2011 requirements).
- The optional cross tape design for garment backs was introduced in the September 2016 Technical Note with an introductory date of October 2016. It is permitted in all garments with the exception of STMS.
- The RF tapes have to be no less than 50 mm wide (in the July 2015 version it was 50±1 mm and was changed in the Technical Note issued September 2016).
- STMS badge material is required to fit into the red orange colour space of AS/NZS 1906.4:2010 (no luminance is required) and have a photometric performance of at least 60 CIL/M<sup>2</sup> when tested at 5° entrance and 2° observation. There are no other tests required on the orange STMS badge material.
- A tolerance of ±2mm was added for the STMS badge letter height in the September 2016 technical note (currently under review).
- Any manufacturer's label shall have maximum dimensions of 50mm x 20mm and be either on the lower leg or sleeve on non-compliant material. Therefore vests cannot have such a label.
- Any plastic pocket, lettering, symbols or logos shall have a maximum area of 7500mm<sup>2</sup> and is restricted to the wearer's upper front left side. This clause does not apply to STMS garments.

These changes are effective from 27 September 2017. **From 1 March 2019 all garments manufactured must comply with the 27 September 2017 Technical Note.**

## Testing Requirements

NZWTA Ltd is available to discuss the changes in the latest Technical Note of the CoPTTM to assist in meeting compliance with the latest specifications.

**For further information, contact NZWTA Ltd on:**

 +64 6 835 1086

Email: [Lorraine.Greer@nzwta.co.nz](mailto:Lorraine.Greer@nzwta.co.nz) or [Christian.Judan@nzwta.co.nz](mailto:Christian.Judan@nzwta.co.nz)