

Part 8 of the Traffic Control Devices Manual (TCD Manual)

## Code of Practice for Temporary Traffic Management (CoPTTM)

(CoPTTM) - (SP/M/010)

## Fourth Edition – Technical Note Changes to B3 High visibility garments

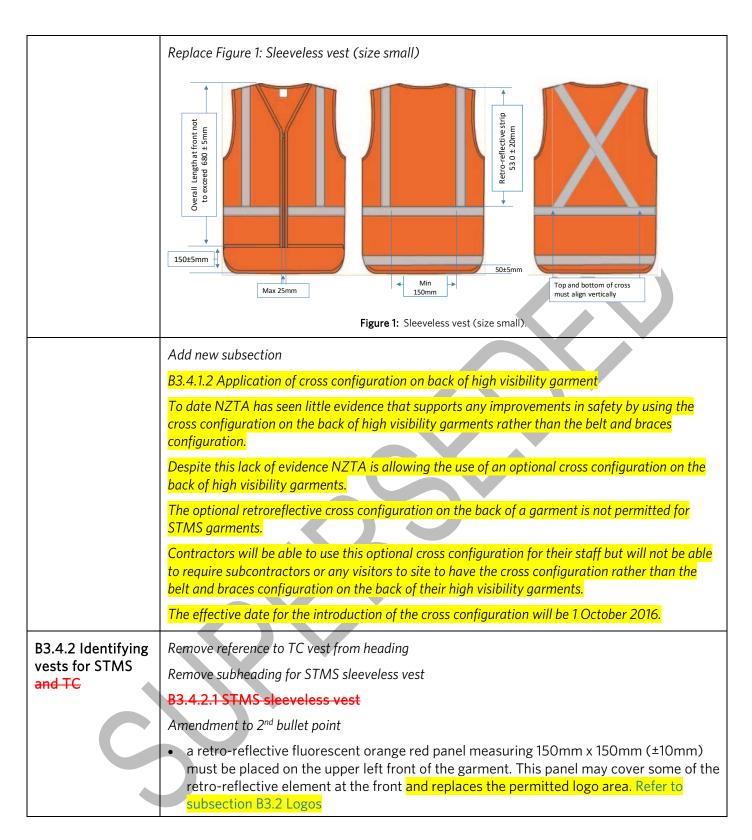
Prepared By:	Stuart Fraser for National Traffic and Safety Manage	er	
Date of Issue:	12 September 2016		

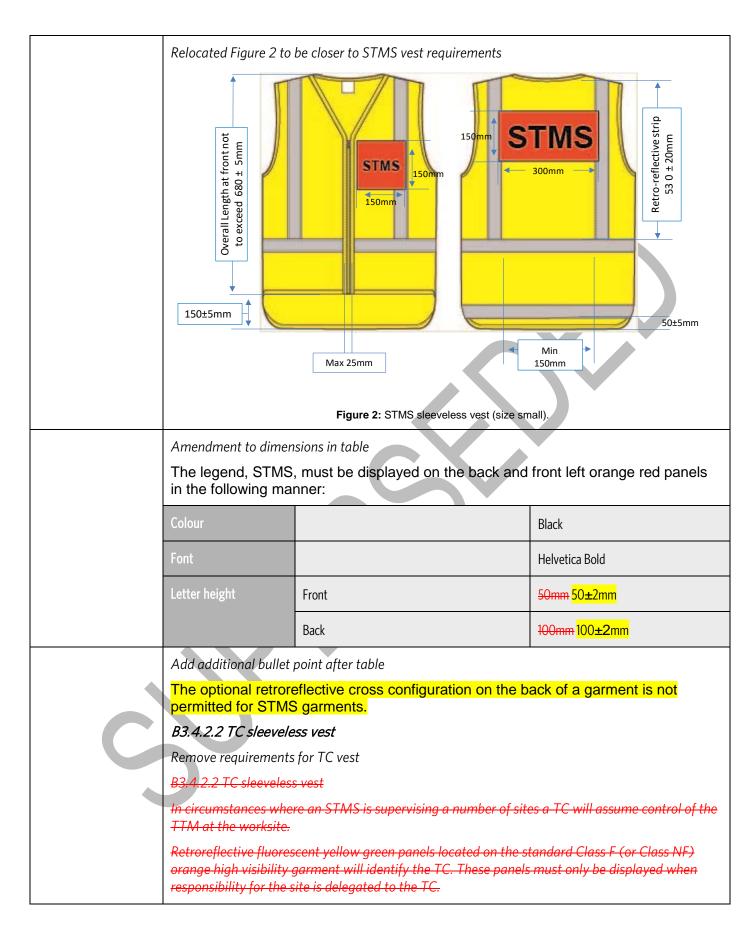
Circulation	Regional Operations Managers, holders of the Code of Practice for Temporary Traffic Management and NZTA website. Please forward to your consultants and contractors	
Objective	To update the July 2015 version of the Fourth Edition of the CoPTTM.	
Effective date	1 October 2016	
Status	This document is a guideline for use by the roading industry, road controlling authorities, network utility operators and event holders.	
Implications	<ul> <li>The changes are as a result of the:</li> <li>Introduction of the option to have a cross configuration on the back of high visibility garments (excluding the STMS garment)</li> <li>Removal of requirements for TC vest</li> <li>Feedback from garment testers.</li> </ul>	
Reminder for all holders	It is important to keep holders of our documents up to date.	
Additional copies	These may be downloaded from NZTA's website, free of charge or purchased direct from our distributor either via the website, or directly to NZ Print, PO Box 2491, Wellington, 6140	

Key to changes	Additional text	Highlighted in yellow
changes	Deleted text	Red strike through
	Comments about the change	Italic text

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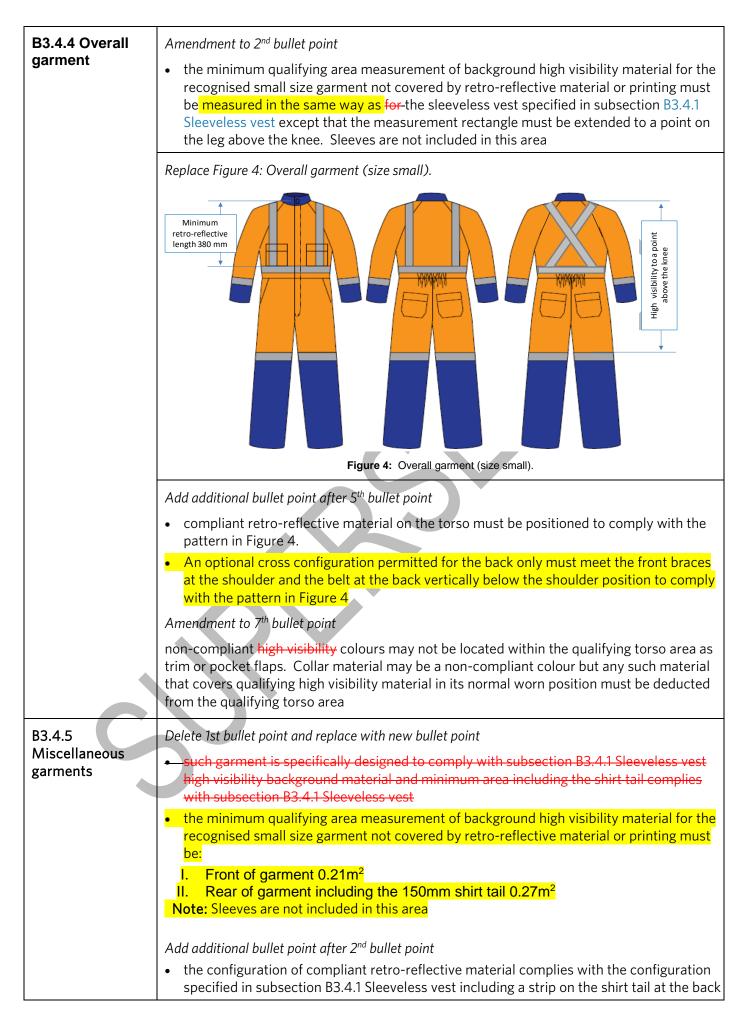
Reference in 4 <sup>th</sup> Edition	Change
B3.1.2 Retro-	Add additional paragraphs
reflectivity	The retro-reflective material must comply with the specification for Class 'R' material as noted in Section 3 and Table 3.2 of AS/NZS1906.4:2010.
	Retroreflective orange red material for STMS panels must comply with the colour specification for Class F background material as noted in Clause B3.1.1 and exhibit a level of retro-reflectivity no less than 60 CIL/m2 at entrance angle 5.0 degrees and observation angle 0.2 degrees.
	<b>Note:</b> Rainfall performance and luminance factor tests are not required for the retroreflective panels.
B3.2 Logos	Amendment to 4 <sup>th</sup> paragraph
	Where required for related safety reasons a fabrics technical recognition I.D. <mark>may be</mark> added in an area not exceeding 30mm x 30mm (900mm2) <del>may be added to the front to</del> the upper front right side of a garment.
	Amendment to 5 <sup>th</sup> paragraph
	A manufacturers label to a maximum size of 50mm x 20mm may be sewn or printed on <del>non-high visibility</del> non-compliant material on the lower sleeve or leg.
B3.3 Garment compliance	Amendment to 2 <sup>nd</sup> paragraph All retro-reflective material applied to garments, including extra small size garments complying with subsection <b>B3.4 Garment design</b> must be in strips <del>50±1mm wide.</del> no less than 50mm wide. Hoops must completely encircle the torso with no breaks except for the permitted front opening. Braces or the rear cross configuration must meet at the top of the shoulder and at the hoops.
B3.4.1	Add new heading
Sleeveless vest	B3.4.1.1 Sleeveless vest requirements
	Amendment to 2 <sup>nd</sup> bullet point
	<ul> <li>the design must include a shirt tail back that is 150mm 150±5mm longer than the front</li> </ul>
	Amendment to 6 <sup>th</sup> bullet point
C	a permitted front opening to accommodate a zip fastener or similar closing device may be no wider than 25mm. Zip colour may be black but a colour matching the garment colour is preferred. Any buttons, domes or similar closure devices on any compliant high visibility must match the colour of the garment (matching colour need not be compliant)
	Add additional bullet points 10 and 11
	• An optional cross configuration permitted for the back only must meet the front braces at the shoulder and the belt at the back vertically below the shoulder position to comply with the pattern in Figure 1.
	<ul> <li>The optional retroreflective cross configuration on the back of a garment is not permitted for STMS garments.</li> </ul>





	<ul> <li>Note: If the above TC panels are permanently affixed to the garment it may only be donned when the responsibility for the site is delegated to the TC.</li> <li>Removable TC designation panels will be securely attached to the garment with the addition of either clear pockets or hook and loop fastening sewn onto the front left and centre back of the garment:</li> <li>on the upper left front of the garment a panel measuring 100mm x 100mm (±5mm) with the letters T C in 75mm helvetica bold. This panel may cover some of the retro-reflective element at the front and the compliant 7500mm2 logo area</li> <li>on the upper centre back of the garment, between the retro-reflective braces a panel measuring 100mm x 250mm (±5mm) with the letters T C in 75mm helvetica bold. This panel may cover some of the retro-reflective of the garment at the front and the compliant 7500mm2 logo area</li> <li>on the upper centre back of the garment, between the retro-reflective braces a panel measuring 100mm x 250mm (±5mm) with the letters T C in 75mm helvetica bold. This panel may cover some of the retro-reflective elements at the back</li> <li>each panel may be reversible; with the back of each panel being compliant Class F (or Class NF) orange garment material such that when reversed the garment will become a standard orange garment</li> <li>the orange reverse side of the front TC panel may include the 7500mm2 logo that would appear on other standard garments.</li> </ul>
B3.4.3 Long- sleeve coat	<ul> <li>Amendment to 2<sup>nd</sup> bullet point</li> <li>the minimum qualifying area measurement of background high visibility material for the recognised small size coat not covered by retro-reflective material or printing must be measured in the same way as for the sleeveless vest specified in subsection B3.4.1 Sleeveless vest except that the measurement rectangle must extend a minimum of 830mm at the front and back. Sleeves are not included in this area</li> <li>Add additional bullet point after bullet point 5</li> <li>compliant retro-reflective material must be positioned to comply with the pattern in Figure 3</li> <li>An optional cross configuration permitted for the back only must meet the front braces at the shoulder and the belt at the back vertically below the shoulder position to comply with the pattern in Figure 3</li> </ul>
	Replace Figure 3: Long sleeve coat (size small).         Image: state of the s

Amendment to 8 <sup>th</sup> bullet point
non-compliant high visibility colours may not be located within the qualifying torso area as trim or pocket flaps. Collar material may be a non-compliant colour but any such material that covers qualifying high visibility material in its normal worn position must be deducted from the qualifying torso area



at the shoulder and the belt at the ba with the pattern in Figure 5 <i>Amendment to 5<sup>th</sup> bullet point</i> • the area of compliant high visibility b will be visible when the garment is w	itted for the back only must meet the front braces ck vertically below the shoulder position to comply ackground material is measured from material that orn in its normal manner. <b>Note:</b> Wearers should be not comply when tucked into trouser type garments		
Amendment to 6 <sup>th</sup> bullet point			
e e e e e e e e e e e e e e e e e e e	<ul> <li>if the garment has a collar this may be a non high visibility colour provided any high visibility colour under the collar worn in its normal position is deducted from the qualifying area.</li> </ul>		
pocket flaps. Collar material may be	cated within the qualifying torso area as trim or a non-compliant colour but any such material that ial in its normal worn position must be deducted		
Replace Figure 5: Miscellaneous garment s	ize small Long Sleeved Polo		
i igure o. ividecitateoda			

