

Accepted products and suppliers: Traffic engineering, traffic management and road safety

Cones and Bollards – Application Requirements

October 2019

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Contents

- 1. Enquiries.....1**
- 2. Introduction1**
- 3. Governing manuals and associated specifications and guidelines.....1**
- 4. Acceptance of new products as suitable for use in Queensland1**
- 5. Conditions of acceptance1**
- Attachment 1 - Cones and Bollards – Acceptance Checklist3**

1. Enquiries

If you have any questions regarding this document, suggestions for improvement or would like to submit a product for acceptance for use in Queensland, please contact:

Department Transport and Main Roads (DTMR) - Traffic Engineering Practice

Email: Trafficengineering.support@tmr.qld.gov.au

2. Introduction

This document is relevant to cones and bollards, defined by Part 3 of the Manual of Uniform Traffic Control Devices as the following:

- MUTCD Part 3 CI 3.9.1(a) – Traffic cones shall comprise cones of fluorescent red or fluorescent orange material that is resilient to impact; and
- MUTCD Part 3 CI 3.9.1(b) – Temporary bollards shall comprise a vertical parallel sided or tapered tube of fluorescent orange or red material that is resilient to impact.

Cones and bollards nominated on the DTMR accepted products list are accepted for temporary use in both short and long-term roadworks sites only.

This document specifies conditions in relation to:

- Requirements for submitting new cones and bollards products for acceptance as compliant to standards (or resubmitting those previously accepted and lapsed);
- Requirements for extending currently accepted cones and bollards products prior to the 3-year acceptance period concluding; and
- Submission requirements, standards and required inclusions.

3. Governing manuals and associated specifications and guidelines

- AS/NZS 1906.1:2017
- Part 3 of the Queensland Manual of Uniform Traffic Control Devices (MUTCD)
- Cones & Bollards Acceptance Checklist

4. Acceptance of new products as suitable for use in Queensland

For a cone or bollard product to be accepted as compliant for use in Queensland, the manufacture/distributor must complete the checklist provided in **Attachment 1**.

The completed checklist should be accompanied by documents to support the requirements of the checklist, the documents are to be submitted to the nominated contact in Section 1.

A sample must also be provided to allow assessment of marking, standard and packaging to the nominated contact in Section 1.

5. Conditions of acceptance

All products are accepted on the condition that the manufacture, design and installation are in accordance with the manufacturer's instructions.

A product's acceptance will remain valid for three years from the date nominated on the letter of acceptance. If during this three-year period the product is redesigned in any way (i.e. changes are made to the product that may adversely affect its performance, durability or maintenance requirements), there is a change to any governing specifications, the manufacturing process changes, or the location of manufacturing changes the acceptance will cease and a reapplication for acceptance will be required.

Within two months of any three-year acceptance period expiring, the manufacturer/distributor is to notify the contact officer, nominated in Section 1, of intention to extend for a further three years and nominate either of the following:

- There has been no redesign of the product – further acceptance period granted
- The product has been redesigned – further acceptance period granted based on submission of relevant test results (either full suite or those relevant to the nominated changes)

Products may only be submitted for renewal once, with the maximum acceptance period for any product being six years, upon the lapsing of this six-year period, a reapplication for acceptance must be sought in line with Section 4. Additionally, if the acceptance period is allowed to expire, the product will need to be reassessed as per Section 4.

Attachment 1 - Cones and Bollards – Acceptance Checklist

Cones and Bollards –Acceptance Checklist

October 2019

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SECTION 1. APPLICANT INFORMATION

Applicant Name: _____ Date: _____

Applicant Company: _____

Product name: _____

Product Category: Cone [Select size(s)] ▶ 900 mm
 700 mm ▶ **Section 2**
 450 mm

Bollards ▶ **Section 3**

Product distributor: _____

Product manufacturer: _____

Location of manufacturing: _____

Date of letter of acceptance: _____

Applicant contact details – name: _____

Corporate address: _____

Corporate email: _____

Phone number: _____

*Notes: Please ensure that all relevant fields are filled in with all supporting information and that **Section 4 – Applicant Declaration** is completed.*

Completed form to be submitted to trafficengineering.support@tmr.qld.gov.au

Product sample required for each product/product size. Sample(s) to be sent to:

Attention: Traffic Engineering Practice

Level 6, 313 Adelaide Street

Brisbane City, Qld, 4001

SECTION 2. TRAFFIC CONES ACCEPTANCE CHECKLIST

Applicant to complete shaded boxes only.

2.1 Size

Requirement	Y/N	Pass (Y/N)
Fluorescent red or fluorescent orange material that is resilient to impact		
At least 450 mm height		
Designed to be stable under reasonably expected wind conditions and air turbulence from passing traffic		

2.2 Retro-reflective Bands (Table 3.6 MUTCD Part 3)

Item	MUTCD Requirement Band Width	Product Band Width (mm)	MUTCD Requirement	Product Distance from top of device to band (mm)	Pass (Y/N)
Cone (450 – 500)	150		130 (+/-5)		
Cone (700 and over)	250		220 (+/-5)		

2.3 Retro-reflective Properties

Requirement	Y/N	Pass (Y/N)
Is the retroreflective element(s) of the product currently on the DTMR accepted retroreflective sheeting products list?		
Have the retroreflective elements of the products been tested for compliance with Table 2.3 of Australian and New Zealand standard AS/NZS1906.1-2017?		
Is the product marked with at least (AS/NZS1906.1-2017 Clause 2.11): <ul style="list-style-type: none"> - The manufactures identification logo or symbol; and - Product identification code. 		

Colour	Pass (Y/N)
White (all entrance and observation angles)	
Fluorescent Yellow (all entrance and observation angles)	
Fluorescent Yellow-Green (all entrance and observation angles)	
Fluorescent Orange (all entrance and observation angles)	

Pass = Result within +/- 3% of values specified in Table 2.3 of AS/NZS1906.1-2017

Test and results in accordance with Appendix A AS/NZS 1906.1:2007.

SECTION 3. BOLLARDS ACCEPTANCE CHECKLIST

Applicant to complete shaded boxes only.

3.1 Size

Requirement	Y/N	Pass (Y/N)
Comprise a vertical parallel sided or tapered tube of fluorescent orange or red material that is resilient to impact		
At least 750 mm height		
Minimum of 100 mm diameter		
Designed to be stable under reasonably expected wind conditions and air turbulence from passing traffic		

3.2 Retro-reflective Bands (Table 3.6 MUTCD Part 3)

Item	Australian Standard Requirement	Band Width Product Band Width (mm)	Australian Standard Requirement Distance from top of device to band	Product Distance from top of device to band (mm)	Pass (Y/N)
Bollard	250		220 (+/-5)		

3.3 Retro-reflective Properties

Requirement	Y/N	Pass (Y/N)
Is the retroreflective element(s) of the product currently on the DTMR accepted retroreflective sheeting products list?		
Have the retroreflective elements of the products been tested for compliance with Table 2.3 of Australian and New Zealand standard AS/NZS1906.1-2017?		
Is the product marked with at least (AS/NZS1906.1-2017 Clause 2.11): <ul style="list-style-type: none"> - The manufactures identification logo or symbol; and - Product identification code. 		

Colour	Pass (Y/N)
White (all entrance and observation angles)	
Fluorescent Yellow (all entrance and observation angles)	
Fluorescent Yellow-Green (all entrance and observation angles)	
Fluorescent Orange (all entrance and observation angles)	

Pass = Result within +/- 3% of values specified in Table 2.3 of AS/NZS1906.1-2017

SECTION 4. APPLICANT DECLARATION

I, as a representative of,
(name of applicant) (name of company)

acknowledge and verify that all information provided above is true and agree to the following:

- That I will inform DTMR should any of the information provided above change;
- If the information provided above is found to be incorrect, whether knowingly or unknowingly, DTMR may at their own volition remove the product from the accepted products register; and
- DTMR may at any time request additional information regarding any aspect of the product, sourcing, and manufacturing process.

.....
(Signature)

...../...../.....
(Date)

For DTMR Completion Only:

Reviewer Name: Date:

Accepted for use: Yes, product is accepted for use in Queensland
 No, product is not accepted for use in Queensland.

Reviewer Signature: