



**The Retroreflective Equipment
Manufacturers Association**

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Information Bulletin CC1/31407



Information Bulletin

Cones and Cylinders

Road cones and traffic cylinders have been in regular use on our roads for some 35 years significantly contributing to the safer guidance for motorists through and past temporary incidents or works sites on our roads.

It is estimated that about 2m road cones are utilised on our roads each year. This level of usage emphasises the importance and value these products contribute to road safety.

Our Bulletin answers questions in respect of the changes in and provides advice on the use of the Standard BS EN 13422:2004 and its relationship to TSRGD 2002.

Guidance is provided for reference to those additional publications that need to be considered in conjunction with the Standard to enable the correct usage and deployment of these products.

**You have choice...
Make it an informed one**

Changes and the Regulations

Cones and Cylinders used on public roads in the UK should now be tested and certified to the definitions, categories and classes of BS EN 13422:2004

The Standard contains all the technical requirements for Cones and Cylinders without the need to refer to other Standards documentation.

There are a number of significant changes to the definitions, categories and classes for cones and cylinders.

These changes are outlined on the following pages of this bulletin.

Regulations

Cones and Cylinders are prescribed by regulation in the UK by The Traffic Signs Regulations and General Directions 2002 (TSRGD)

These regulations lay down the diagrams, type, colour, dimensions and usage of these products together with their illumination requirements.

TSRGD illustrates a Traffic Cone as diagram 7101.1 and cites Regulations 54 and 56. With Directions 36, 41(6), 42(1)

TSRGD illustrates a Traffic Cylinder as diagram 7103 and cites Regulation 56. With Directions 36 and 42(1).

These illustrations may be found in TSRGD under Schedule 12 Part 2 Road Works Delineators and Barriers.

BS EN 13422:2004

Category A Cone or Cylinder

A cone or cylinder which is totally retroreflective except for the base plate.

Category B Cone or Cylinder

A cone or cylinder in which only a part or parts of the body are retroreflective.

There are now two shape classes for cones S1 and S2 which refers to the angle of the lower 25% of the height above the base.

There are three weight classes W1, W2 and W3.

There are visual performance requirements for daylight appearance of both internal and external non-reflective and reflective surfaces.

There are four classes of reflective performance, this allows for different retroreflective technologies to be used, R1A, R2A, R1B and R2B. The main difference being that retroreflective performance classification has been transposed. A performance requirement for retroreflective surfaces in wet conditions also applies of 70% of any of the above classes.

Included in the requirements of this standard are low temperature impact, resistance to bending and fatigue (traffic cylinders). Stability of traffic cones, drop test for testing security of ballast for cones. Testing for adhesion and continuity of retroreflective surfaces.

Under the terms of this standard there is also a Factory Production Control Quality System requirement.

GUIDANCE

Cones and Cylinders are used in many and varied situations on our road network, information and guidance on the correct use and deployment may be found in the following publications.

The Traffic Signs Manual Chapter 8

Traffic Safety measures and signs for road works and temporary situations.

Part 1: Design 2006

Section D4.9
Summarises the minimum and optional requirements for cones and cylinders for UK roads

Part 2: Operations 2006

Appendix A1 Tables
Table A1.3
Recommended spacing and sizes of traffic cones

Safety at Street Works and Road Works
A code of practice
(Red Book)

Manual of Contract Documents for Highway Works

Volume 1 Specification for Highway Works Series 1200 Traffic Signs

Manual of Contract Documents for Highway Works

Volume 2 Notes for Guidance on The Specification for Highway Works Series 1200 traffic Signs NG.