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Miscellaneous road traffic signs and devices – Requirements and test methods

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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 November 2015. It was prepared by Subcommittee B/509/3, *Construction of road traffic signs*, under the authority of Technical Committee B/509, *Road equipment*. A list of organizations represented on these committees can be obtained on request to their secretary.

Supersession

This British Standard supersedes BS 8442:2006, which is withdrawn.

Product certification/inspection/testing

Users of this British Standard are advised to consider the desirability of third-party certification/inspection/testing of product conformity with this British Standard. Appropriate conformity attestation arrangements are described in BS EN ISO/IEC 17025. Users seeking assistance in identifying appropriate conformity assessment bodies or schemes may ask BSI to forward their enquiries to the relevant association.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards*, subclause J.1.1, which states, "Requirements should be expressed using wording such as: 'When tested as described in Annex A, the product shall ...'". This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Particular attention is drawn to the following specific regulations:

- a) The Traffic Signs Regulations and General Directions (TSRGD) [1]
- b) The School Crossing Patrol Sign (Scotland) Regulations 2002 [2]
- c) The School Crossing Patrol Sign (England and Wales) Regulations 2006 [3]
- d) The Low Voltage Directive (LVD) 2006/95/EC [4]
- e) The Zebra, Pelican and Puffin Pedestrian Crossings Regulations and General Directions 1997 [5]

1 Scope

This British Standard specifies requirements and tests (see Note) for rigid and flexible portable signs, barriers, self-supporting portable signs, "Stop/Go" and "Stop/Works" signs, school crossing patrol signs, flat traffic delineators, flap signs, pedestrian crossing and refuge beacons, internally illuminated posts, twin amber flashing light units, non-retroreflecting road studs and retroreflective self-righting bollards.

Non-retroreflecting road studs incorporating an active light source are not covered by this standard.

NOTE The tests given in this standard are suitable for both initial type testing and production testing.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 3424-5:1982, *Testing coated fabrics – Part 5: Methods 7A, 7B and 7C – Methods for determination of tear strength*

BS 7263-1, *Precast concrete flags, kerbs, channels, edgings and quadrants – Precast, unreinforced concrete paving flags and complementary fittings – Part 1: Requirements and test methods*

BS EN 40-2:2004, *Lighting columns – Part 2: General requirements and dimensions*

BS EN 485-1, *Aluminium and aluminium alloys – Sheet, strip and plate – Part 1: Technical conditions for inspection and delivery*

BS EN 12332-1, *Rubber- or plastics-coated fabrics – Determination of bursting strength – Part 1: Steel ball method*

BS EN 12665, *Light and lighting – Basic terms and criteria for specifying lighting requirements*

BS EN 12767:2007, *Passive safety of support structures for road equipment – Requirements, classification and test methods*

BS EN 12899-1:2007, *Fixed, vertical road traffic signs – Part 1: Fixed signs*

BS EN 13032-1, *Light and lighting – Measurement and presentation of photometric data of lamps and luminaires – Part 1: Measurement and file format*

BS EN 50293, *Road traffic signal systems – Electromagnetic compatibility*

BS EN 55014-1, *Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission*

BS EN 60529, *Degrees of protection provided by enclosures (IP code)*

BS EN 60598-1:2000, *Luminaires – Part 1: General requirements and tests*

BS EN ISO 877-1:2010, *Plastics – Methods of exposure to solar radiation – Part 1: General Guidance*

BS EN ISO 877-2:2010, *Plastics – Methods of exposure to solar radiation – Part 2: Direct weathering and exposure behind window glass*

BS EN ISO 1421, *Rubber- or plastics-coated fabrics – Determination of tensile strength and elongation at break*