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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 28 February 2022. 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 its secretary.

## Supersession

This British Standard supersedes [BS 8442:2015](#), which is withdrawn.

## Information about this document

This is a full revision of the standard, and introduces the following principal changes:

- references to legislation and other standards have been updated and duplication of their content within this standard has been avoided where possible. This has the effect of making the full range of colours for permanent signs available also for temporary ones, with the identical chromaticity and luminance requirements;
- non-retroreflective roads studs have been removed, as these are specified in the relevant Statutory Instrument (TSRGD);
- non-illuminated post requirements have been simplified and the option of offset brackets added;
- a maximum luminance of 1 200 cd·m<sup>-2</sup> is given for beacon globes, including any device designed to improve the conspicuousness of the globe;
- the chromaticity of flashing amber signals is now to Yellow Class C2 of BS EN 12966:2014+A1:2018;
- head and body components are distinguished for foreign object and water ingress and reference made to BS EN 60529;
- clarification of purchaser information to be supplied has been made in some instances; and
- formulae in [Annex F](#) have been corrected.

This publication can be withdrawn, revised, partially superseded or superseded. Information regarding the status of this publication can be found in the Standards Catalogue on the BSI website at [bsigroup.com/standards](https://bsigroup.com/standards), or by contacting the Customer Services team.

Where websites and webpages have been cited, they are provided for ease of reference and are correct at the time of publication. The location of a webpage or website, or its contents, cannot be guaranteed.

## 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.*

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

### **Contractual and legal considerations**

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

In particular, attention is drawn to the following specific regulations:

- The Traffic Signs Regulations and General Directions 2016 [1]
- Electrical Equipment Safety Regulations 2016 [2]
- Radio Equipment Regulations 2017 [3]
- Electromagnetic Compatibility Regulations 2016 [4]
- Traffic Signs Manual [5]
- Safety at Streetworks and Road Works: A Code of Practice [6]

## 1 Scope

This British Standard specifies requirements and test methods 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 and retroreflective self-righting bollards.

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

Road studs are not covered by this British Standard.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions of this document<sup>1)</sup>. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

### Standards publications

[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 – Part 1: Precast, unreinforced concrete paving flags and complementary fittings – Requirements and test methods*

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

BS EN 40-6:2002, *Lighting columns – Requirements for aluminium lighting columns*

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, *Passive safety of support structures for road equipment – Requirements and test methods*

BS EN 12899-1:2007, *Fixed, vertical road traffic signs – Part 1: Fixed signs<sup>2)</sup>*

BS EN 12966:2014+A1:2018, *Road Vertical Traffic Signs – Variable message traffic signs<sup>3)</sup>*

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 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*

<sup>1)</sup> Documents that are referred to solely in an informative manner are listed in the Bibliography.

<sup>2)</sup> This standard also gives informative references to BS EN 12899-1:2007.

<sup>3)</sup> This standard also gives an informative reference to BS EN 12966:2014+A1:2018.