

The construction of road traffic signs and internally illuminated bollards —

Part 3: Specification for internally illuminated bollards

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The organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:

Aluminium Federation	Department of the Environment (Transport and Road Research Laboratory)
Association of Public Lighting Engineers	Fibre Building Board Development Organization Ltd.
Association of Road Traffic Sign Makers	Institute of Vitreous Enamellers
British Electrical and Allied Manufacturers' Association (BEAMA)	Lighting Industry Federation Ltd.
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British Rubber Manufacturers' Association	Retro-reflective Equipment Manufacturers' Association
British Sign Association	Vitreous Enamel Development Council
British Steel industry	Individual companies
Chartered Institution of Building Services	
Confederation of British Road Passenger Transport	

This British Standard, having been prepared under the direction of the Road Engineering Standards Committee, was published under the authority of the Executive Board and comes into effect on 29 August 1980

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Foreword

This British Standard has been prepared under the direction of the Road Engineering Standards Committee. BS 873 was first published in 1939 in response to a request from the Association of Road Traffic Sign Makers, and was revised in 1959 and 1970. As a result of subsequent experience and the advent of new materials and methods of construction, it has been further revised to bring it up-to-date.

This revision includes a change to metric units, in line with the national policy of metrication. The advent of totally illuminated bollards (plastics bollards) has been taken into account. The opportunity has been taken to specify one luminance range for all areas and to simplify the impact test.

The Committee has re-considered the need for requirements for resistance to abrasion and has concluded that, while perhaps desirable, it is not practicable to establish suitable conditions of test bearing in mind the wide variety of finishes available within the specification.

The specification of particular processes and materials in this standard is not intended to pre-empt the development of other processes or materials. The standard may be revised in the future to take account of any suitable developments that occur.

The tests specified in this standard necessitate a routine sampling procedure. Such procedure should be agreed between the purchaser and the manufacturer at the time of ordering, and in this connection attention is drawn to BS 2635.

In references to BS 4533-1, the word “luminaire” should be read as “bollard”.

This standard is being revised in a new series of Parts. The present is the first Part to be published in this new series. Other Parts will deal with miscellaneous traffic signs, road studs, internally and externally illuminated signs, retro-reflective and non-retro-reflective signs and posts and fittings.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This Part of this British Standard specifies requirements for the design and performance of internally illuminated bollards. Spring-back bollards are not covered in this standard.

Appendix A indicates the information to be given with an enquiry or order.

2 References

The titles of the publications referred to in this standard are listed on the inside back cover.

3 Definitions

For the purposes of this Part of this British Standard, the following definitions apply.

3.1

bollard

a device placed on a refuge or traffic island to warn drivers of those obstructions. It may contain a prescribed traffic sign.

3.2

one-aspect bollard

a bollard designed to display a sign or a plain white circle in one direction only

3.3

head

that part of the bollard containing the sign

3.4

body

that part of the bollard situated below the head

NOTE The head and the body may be combined into one structure.

3.5

width of body

the horizontal dimension of the body on the side or sides of the bollard having a sign or plain white circle

3.6

depth of body

the horizontal dimension of the body on the side or sides of the bollard having no sign or plain white circle

3.7

housing

the structural part of the bollard

3.8

base

that part of the bollard which is fixed to the refuge or traffic island by means of holding-down bolts and in which the incoming electrical supply is terminated

3.9

manufacturer's stated ground line

the horizontal line marked on the bollard which should be level with the surrounding surface of the refuge or traffic island when the bollard has been installed in accordance with the manufacturer's instructions

3.10

reflex-reflector

a device capable of reflecting the light back in the general direction of the light source

3.11

luminance

see BS 4727-4:Group 01

4 Materials

4.1 Housings. Housings shall be constructed from one or more of the following materials.

a) Steel plate, sheet or strip complying with the requirements of BS 1449 or BS 2989.

b) Sheet aluminium complying with the requirements of BS 1470.

c) Plastics, reinforced plastics or other materials. Housings manufactured from such materials shall pass the tests specified in Appendix C, Appendix J and Appendix N of Part 1:1970 of this standard and they shall in no case be manufactured from materials whose suppliers are unable to furnish attested evidence of at least two years' satisfactory outdoor performance of the material.

Plastics materials shall contain a recognized UV stabilizer in the proportions recommended by the manufacturer.

4.2 Illuminated parts. Illuminated parts shall be constructed of transparent or translucent materials which shall pass the tests specified in Appendix C, Appendix J, Appendix K, Appendix M and Appendix N, of Part 1:1970 of this standard and they shall in no case be manufactured from materials whose suppliers are unable to furnish attested evidence of at least two years' satisfactory optical and mechanical outdoor performance of the material.

If glass is used it shall be toughened or laminated. Plastics materials shall contain a recognized UV stabilizer in the proportions recommended by the manufacturer.

4.3 Cements, paints, inks and lacquers for plastics materials. Cements, paints, inks and lacquers shall be of a type suitable for the base plastics materials.