

Australian Standard[®]

Illuminated flashing arrow signs

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This Australian Standard® was prepared by Committee LG-006, Road traffic signals. It was approved on behalf of the Council of Standards Australia on 14 August 2006. This Standard was published on 28 August 2006.

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- AUSTRROADS
- Australian Electrical and Electronic Manufacturers Association
- Australian Industry Group
- Brisbane City Council
- Commonwealth Department of Transport and Regional Services
- Department for Transport, Energy and Infrastructure (SA)
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- Local Government New Zealand
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Illuminated flashing arrow signs

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee LG-006, Road Traffic Signals, to supersede AS/NZS 4192:1994.

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This Standard incorporates Amendment No. 1 (February 2007). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The use of illuminated flashing arrow signs is subject to regulation by traffic control authorities. Guidance on their use is provided in AS 1742.3, *Manual on uniform traffic control devices, Part 3: Traffic control devices for works on roads*.

The significant technical changes that have been made in this Standard from the previous publication relate in general, to the replacement of three prescribed light sources with a performance-based specification for the light-emitting elements. Specifically this involves the following:

- (a) Revision of display panel sizes.
- (b) Definition of light-emitting elements.
- (c) Specification of element sizes.
- (d) Specification of luminous intensity distributions for large and small elements.
- (e) Revised chromaticity boundaries for elements.
- (f) Choice of large or small elements for both size A and B signs.
- (g) Separation of sign size from mounting style (e.g. size C signs not necessarily trailer mounted).
- (h) Provision of detailed requirements for photometric and colorimetric measurements.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the design, construction and performance of signs intended to display specific patterns of flashing yellow, circular lit elements, including arrows, typically used for the temporary diversion of vehicular traffic on roads. It specifies three sizes of sign, which are typically mounted on either a motor vehicle or trailer.

The Standard states the intended maximum viewing distance for each type of sign specified but it does not cover the appropriate use of each type. That is dealt with in AS 142.3 and is normally the subject of regulation by the relevant traffic authority.

NOTE: See Appendix A for details of the information that should be supplied with an enquiry or order for illuminated flashing arrow signs to this Standard.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1742 Manual of uniform traffic control devices
- 1742.3 Part 3: Traffic control devices for works on roads
- 4177 Caravan and light trailer towing components
- 4177.5 Part 5: Electrical connectors
- 60529 Degrees of protection provided by enclosures (IP Code)

AS/NZS

- 1170 Structural design actions
- 1170.2 Part 2: Wind actions
- 2344 Limits of electromagnetic interference from overhead a.c. power lines
- 2633 Guide to the specification of colours

CISPR 14.1 Electromagnetic compatibility—Requirements for household appliances, electric tools and similar apparatus—Emission

CIE

- 5 Colorimetry
- 18.2 The basis of physical photometry
- 72 The measurement of absolute luminous intensity distributions

OTHER DOCUMENTS

Vehicle Standards Bulletin No. 1: Building small trailers. Federal Office of Road Safety, Canberra.

National Occupational Health and Safety Commission, NOHSC 1007, National Standard for Occupational Noise