Australian Standard®

Traffic signal posts and attachments

This Australian Standard was prepared by Committee LG/6, Road Traffic Signals. It was approved on behalf of the Council of Standards Australia on 10 December 1996 and published on 5 April 1997.

The following interests are represented on Committee LG/6:

Australian Chamber of Manufactures

Australian Electrical and Electronic Manufacturers Association

ARRB Transport Research

AUSTROADS

Brisbane City Council

Department of Transport S.A.

Department of Urban Services A.C.T.

Metal Trades Industry Association of Australia

Roads and Traffic Authority of N.S.W.

Vic Roads

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PREFACE

This Standard was prepared by the Standards Australia Committee LG/6, Road Traffic Signals, to supersede AS 2339—1987. It is one of a number of Standards that set out requirements for the equipment associated with traffic signal installations. As at the date of publication of this Standard, these include the following:

AS
2144 Traffic signal lanterns

2276 Cables for traffic signal installations
2276.1 Part 1: Multicore power cables
2276.2 Part 2: Feeder cable for vehicle detectors
2276.3 Part 3: Loop cable for vehicle detectors

2339 Traffic signal posts and attachments (this Standard)

2353 Pedestrian push-button assemblies

2578 Traffic signal controllers
2578.1 Part 1: Physical and electrical compatibility

2703 Vehicle loop detector sensors

2979 Traffic signal mast arms

4113 Traffic signal lamps
4113.1 Part 1: Lamps for 240 V a.c. operation
4113.2 Part 2: Lamps for a.c. operation at extra-low voltage

4191 Portable traffic signal systems

AS/NZS
4192 Illuminated flashing arrow signs

The objective of this Standard is to specify requirements for the form, dimensions, material and finish of tubular steel posts and attachments used for the support of traffic signal lanterns, pedestrian push-button assemblies and ancillary equipment. It is intended for application by road and traffic authorities and their suppliers to facilitate the manufacture, purchase and use of the posts and attachments.

The objective of this edition is to introduce a variety of alterations, found to be necessary, arising from the application of the 1987 edition of the Standard. In particular, the dimensions of the lugs of lower mounting brackets have been changed to facilitate the use of a mechanism for locking lantern mounting straps in position. Details of one form of locking mechanism have been included in an informative appendix.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard

Traffic signal posts and attachments

S E C T I O N 1 S C O P E A N D G E N E R A L

1.1 SCOPE This Standard specifies requirements for the form, dimensions, material and finish of tubular steel posts and attachments used for the support of traffic signal lanterns, pedestrian push-button assemblies and ancillary equipment. It does not apply to special overhead structures, such as mast arms and gantries, which may be used for this purpose.

NOTES:

1 Appendix A lists the information which should be supplied with an enquiry or order for traffic signal posts and attachments complying with this Standard.

2 Requirements for traffic signal mast arms are specified in AS 2979.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1074 Steel tubes and tubulars for ordinary service

1214 Hot-dip galvanized coatings on threaded fasteners (ISO metric coarse thread series)

1449 Wrought alloy steels—Stainless and heat-resisting steel plate, sheet and strip

1554 Structural steel welding (known as the SAA Structural Steel Welding Code)

1554.1 Part 1: Welding of steel structures

1650 Hot-dipped galvanized coatings on ferrous articles

1798 Lighting poles and bracket arms—Preferred dimensions

1939 Degrees of protection provided by enclosures for electrical equipment (IP Code)

2144 Traffic signal lanterns

2276 Cables for traffic signal installations

2276.1 Part 1: Multicore power cables

2700 Colour standards for general purposes

2837 Wrought alloy steels—Stainless steel bars and semi-finished products

2979 Traffic signal mast arms

3100 Approval and test specification—General requirements for electrical equipment

AS/NZS

2053 Conduits and fittings for electrical installations

2053.4 Part 4: Flexible plain conduits and fittings of insulating material

1.3 DEFINITIONS For the purpose of this Standard, the definitions given in AS 2144 and those below apply.

NOTE: See Appendix B for an illustration of the terms defined below.