



## **Traffic signal posts, mast arms and attachments**



This Australian Standard® was prepared by Committee LG-006, Road Traffic Signals. It was approved on behalf of the Council of Standards Australia on 6 April 2017. This Standard was published on 11 May 2017.

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The following are represented on Committee LG-006:

- Australian Industry Group
  - CIE Australia
  - Department of Planning, Transport and Infrastructure, SA
  - Department of Transport and Main Roads, Qld
  - Hire and Rental Industry Association
  - IES: The Lighting Society
  - Intelligent Transport Systems Australia
  - Main Roads Western Australia
  - Roads and Maritime Services, NSW
  - Traffic Management and Safety - Roads ACT
  - VicRoads
- 

This Standard was issued in draft form for comment as DR AS 2339:2016.

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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Australian Standard<sup>®</sup>

## **Traffic signal posts, mast arms and attachments**

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## PREFACE

This Standard was prepared by the Standards Australia Committee LG-006, Road Traffic Signals, to supersede AS 2339—1997, *Traffic signal posts and attachments* and AS 2979—1998, *Traffic signal mast arms*.

The objective of this Standard is to provide road and traffic authorities and their suppliers with requirements for the manufacture, purchase and use of posts, mast arms and attachments to—

- (a) ensure that structures will present a reasonably uniform appearance to road users;
- (b) provide for rationalization in the range of sizes required and in the functional performance requirements; and
- (c) provide for uniformity in the fixings and attachments used.

A number of significant changes have been made to the previous edition of this Standard as follows:

- (i) The inclusion of requirements for traffic signal mast arms and joint-use mast arms that were previously in the separate Australian Standard AS 2979.
- (ii) The inclusion of requirements for joint-use poles.
- (iii) The inclusion of specifications for square cross-section posts.

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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## Australian Standard

### Traffic signal posts, mast arms and attachments

#### SECTION 1 SCOPE AND GENERAL

##### 1.1 SCOPE

This Standard specifies requirements for the form, dimensions, material and finish of tubular steel posts and mast arms, and attachments used for the support of traffic signal lanterns, pedestrian push-button assemblies and ancillary equipment. This Standard also includes requirements for the joint-use of posts and mast arms with road lighting attachments.

NOTE: Appendix A lists the information which should be supplied with an enquiry or order for traffic signal posts and attachments in accordance with this Standard.

Protection devices such as crash cushions are outside the scope of this Standards as they are add-on features and not part of the design of traffic signal posts. For information on the use of these devices refer to AS/NZS 3845.1.

##### 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) (ISO 10684:2004, MOD)
1798	Lighting poles and bracket arms—Recommended dimensions
2144	Traffic signal lanterns
2276	Cables for traffic signal installations
2276.1	Part 1: Multicore power cables
2353	Pedestrian push-button assemblies
2700	Colour standards for general purposes
2979	Traffic signal mast arms
3100	Approval and test specification—General requirements for electrical equipment
4100	Steel structures
60529	Degrees of protection provided by enclosures (IP Code)

###### AS/NZS

1170	Structural design actions
1170.2	Part 2: Wind actions
1554	Structural steel welding
1554.1	Part 1: Welding of steel structures
3000	Wiring Rules
3845	Roadside safety systems and devices
3845.1	Part 1: Barrier systems