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TRAFFIC SIGNAL POSTS AND ATTACHMENTS

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The following interests are represented on Committee LG/6:

Australian Electrical and Electronic Manufacturers Association

Australian Road Research Board

Confederation of Australian Industry

Department of Territories (Commonwealth)

Department of Transport (Commonwealth)

Metal Trades Industry Association of Australia

National Association of Australian State Road Authorities

Railways of Australia Committee

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AUSTRALIAN STANDARD

TRAFFIC SIGNAL POSTS AND ATTACHMENTS

AS 2339– 1987

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PREFACE

This Standard was prepared by the Association's Committee on Road Traffic Signals to supersede AS 2339—1980. It is one of a group of Standards which set out requirements for equipment associated with traffic signal installations, viz.

AS 2144 Traffic Signal Lanterns.

AS 2339 Traffic Signal Posts and Attachments. (This Standard.)

AS 2353 Pedestrian Push-button Assemblies.

AS 2578 Traffic Signal Controllers.
Part 1: Physical and Electrical Compatibility.

AS 2703 Vehicle Loop Detector Sensors.

AS 2979 Traffic Signal Mast Arms.

The main change in this edition of AS 2339 is a reduction in the required strength of the locking mechanism of split-shell mounting brackets (see Clause 3.2.3(b)). The torque withstand requirement previously specified has been found to be significantly in excess of the maximum value which could be expected in normal service. Opportunity has also been taken to effect other changes of an editorial or minor technical nature.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
TRAFFIC SIGNAL POSTS AND ATTACHMENTS

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard specifies requirements for tubular steel posts and associated attachments which are designed for use in traffic signal installations for the support of traffic signal lanterns and pedestrian push-button assemblies. It does not apply to special overhead structures such as mast-arms* and gantries which may be used for this purpose.

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

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

AS 1074	Steel Types and Tubulars Threaded or Suitable for Threading with Pipe Threads of Whitworth Form.
AS 1275	Metric Screw Threads for Fasteners.
AS 1554.1	SAA Structural Steel Welding Code. Part 1: Welding of Steel Structures.
AS 1650	Galvanized Coatings.
AS 1721	General Purpose Metric Screw Threads.
AS 1798	Preferred Dimensions for Lighting Columns and Bracket Arms.
AS 1939	Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment.
AS 2052	Metallic Conduits and Fittings.
AS 2144	Traffic Signal Lanterns.
AS 2276.1	Cables for Traffic Signal Installations. Part 1: Multicore Power Cables.
AS 2700	Colour Standards for General Purposes.
AS 2979	Traffic Signal Mast Arms.
BS 1322	Aminoplastic Moulding Materials.

Electricity Supply Industry Standard 12-1 (1970), Terminal Blocks†.

1.3 DEFINITIONS. For the purpose of this Standard, the definitions given in AS 2144 and those below apply. The terms defined below are illustrated in Appendix A.

1.3.1 Traffic signal post—a tubular structure which is designed to support a traffic signal lantern or group of lanterns. It may also be used to support ancillary equipment such as pedestrian push-button assemblies.

NOTE: In this Standard, a traffic signal post is referred to as a 'post'.

1.3.2 Push-button post—a post designed solely for the support of one or more push-button assemblies.

1.3.3 Baseplate-mounted post—a post which is designed to be bolted down onto a foundation by means of a baseplate affixed to the bottom of the post.

1.3.4 Buried post—a post which is intended to be supported by the direct burial of a portion of it.

1.3.5 Planting depth—the length of that section of a buried post which is intended to be buried below ground level.

1.3.6 Ground line—the position on a buried post at a distance from the butt end equal to the manufacturer's stated planting depth.

1.3.7 Post length.

(a) *For baseplate-mounted posts*—the distance from the bottom of the baseplate to the highest point on the post.

(b) *For buried posts*—the distance from the ground line to the highest point on the post.

NOTE: The overall length of a buried post is the sum of the post length and the planting depth (see Figure A1 of Appendix A).

1.3.8 Lantern mounting bracket—an assembly designed for clamping onto a post, for the purpose of supporting one or more traffic signal lanterns by means of mounting straps attached to the top and bottom of each lantern.

1.3.9 Lantern mounting strap—a supporting strap used for the purpose of connecting the lantern to a mounting bracket attached to the post.

1.3.10 Finial cap—a cover provided at the top of the post to prevent inadvertent contact with live terminals and to protect the terminal assembly and associated wiring from the weather.

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

† Published by the Central Electricity Generating Board, Sudbury House, 15 Newgate Street, London, E.C.I., U.K.