

Australian/New Zealand Standard™

Steel utility services poles



AS/NZS 4677:2010

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CE-019, Utility Service Poles. It was approved on behalf of the Council of Standards Australia on 24 May 2010 and on behalf of the Council of Standards New Zealand on 28 May 2010.

This Standard was published on 29 June 2010.

The following are represented on Committee CE-019:

Bureau of Steel Manufacturers of Australia
Concrete Pipe Association of Australasia
Electricity Engineers Association (New Zealand)
Energy Networks Association
National Precast Concrete Association Australia
New Zealand Concrete Society
New Zealand Heavy Engineering Research Association
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First published as AS/NZS 4677:2000.
Second edition 2010.

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Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6140

ISBN 978 0 7337 9619 7

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Standards Committee CE-019, Utility Services Poles, to supersede AS/NZS 4677:2000.

The objective of this Standard is to provide the designers, manufacturers and purchasers of steel utility services poles with a specification for their manufacture.

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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Steel utility services poles

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies minimum requirements for the materials, design, fabrication and erection of steel utility services poles.

The Standard applies to steel poles and their component parts which support any one of street lights, floodlights, aerial conductors, electromotive-transport conductors, traffic signals, communication equipment, or similar utility services, or any combination of these services.

The Standard does not apply to lattice steel towers and masts, freestanding or guyed, nor to steel flag poles.

NOTES:

- 1 Means for demonstrating compliance with this Standard are given in Appendix A.
- 2 Design of lattice steel towers and masts is specified in AS 399.

1.2 APPLICATION

This Standard is not intended to serve as a complete technical specification for steel utility services poles, but may form the basis of such specifications. The Standard shall not be interpreted as preventing the use of materials or methods of design, fabrication or erection not specifically referred to herein. For structural design requirements refer to AS/NZS 4676.

1.3 REFERENCED DOCUMENTS

The documents referred to in this Standard are listed in Appendix B.

1.4 DEFINITIONS AND DIMENSIONS

For the purpose of this Standard, the definitions given in AS/NZS 1158.0, AS 1798 and AS/NZS 4676 apply.

1.5 CLASSIFICATION

Steel utility services poles shall be classified in accordance with AS/NZS 4676.

1.6 MARKING**1.6.1 General**

Unless otherwise specified by the purchaser, all poles shall be permanently and legibly marked, at a height not greater than 2 m above ground level, with the following information in lettering not less than 5 mm in height:

- (a) Manufacturer's identification (e.g. Name, trademark, logo).
- (b) Year of manufacture (see Note 1).
- (c) Nominal overall length in metres (m) (see Appendix J of AS/NZS 4676).