

Australian/New Zealand Standard™

Concrete utility services poles



AS/NZS 4065:2010

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 Inc.
New Zealand Heavy Engineering Research Association
New Zealand Timber Industry Federation

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This Standard was issued in draft form for comment as DR 05425.

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Concrete utility services poles

Originated in Australia as AS 4065—1992.
Originated in New Zealand as NZS 1054:1966.
Revised and redesignated as NZS 3115:1980.
AS 4065—1992 and NZS 3115:1980 jointly revised and amalgamated
as AS/NZS 4065:2000.
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

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CE-019, Utility Services Poles, to supersede AS/NZS 4065:2000, *Concrete utility services poles*.

The objective of this Standard is to provide the designers manufacturers and purchasers of concrete 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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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the minimum requirements for materials, design and manufacture of reinforced and prestressed concrete utility services poles.

The Standard applies to concrete 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 concrete flag poles (see Note 2).

NOTES:

- 1 Methods for demonstrating compliance with this Standard are given in Appendix A.
- 2 Information on the additional loads induced by the temporary attachment of flags or banners to utility services poles is given in Appendix G of AS/NZS 4676.

1.2 APPLICATION

This Standard is not intended to serve as a complete technical specification for the supply of concrete poles, but may form the basis of such a specification. The Standard shall not be interpreted to prevent the use of materials or methods of design or construction not specifically referred to in the document.

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

For the purpose of this Standard, the definitions given in AS/NZS 1158.1.1, AS 1798, AS/NZS 4676 and those below apply.

1.4.1 Along-line direction

The horizontal direction parallel to the direction of run of the aerial cables.

1.4.2 Deflection

The measured distance (in millimetres) between the nominated position of the pole under the influence of the test load and that prior to the commencement of loading.

1.4.3 Failure

The inability under test to meet specified limit state criteria.

1.4.4 Load at the serviceability limit state

The load corresponding to the maximum load the pole is expected to carry under service load, subject to serviceability requirements.