AS/NZS 4676:2000

Australian/New Zealand Standard[™]

Structural design requirements for utility services poles





AS/NZS 4676:2000

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CE/19, Utility Services Poles. It was approved on behalf of the Council of Standards Australia on 21 May 2000 and on behalf of the Council of Standards New Zealand on 16 May 2000. It was published on 30 August 2000.

The following interests are represented on Committee CE/19:

Bureau of Steel Manufacturers of Australia Concrete Pipe Association of Australasia Electricity Engineers Association of New Zealand Electricity Supply Association of Australia National Precast Concrete Association of Australia New Zealand Concrete Society New Zealand Heavy Engineering Research Association New Zealand Timber Industry Federation University of Technology Sydney

Additional interests participating in the preparation of this Standard:

Australian Aluminium Council AUSTROADS National Association of Forest Industries

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 98206.

Australian/New Zealand Standard[™]

Structural design requirements for utility services poles

First published as AS/NZS 4676:2000.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 3449 9

2

PREFACE

This Standard was prepared by the Joint Standards Australia/ Standards New Zealand Committee CE/19, Utility Services Poles.

The objective of this Standard is to provide power authorities, manufacturers, and designers, with the requirements for the design and installation of utility services poles.

This Standard is intended for use in conjunction with the following Standards:

AS

2209 Timber poles for overhead lines

AS/NZS

4065 Concrete utility services poles

4677 Steel utility services poles

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

CONTENTS

Page

SECTIO	ON 1 SCOPE AND GENERAL	
1.1	SCOPE	5
1.2	GENERAL	5
1.3	REFERENCED DOCUMENTS	5
1.4	DEFINITIONS	5
1.5	NOTATION	6
1.6	CLASSIFICATION	9
SECTIO	ON 2 DESIGN REQUIREMENTS AND PROCEDURES	
2.1	GENERAL	11
2.2	DESIGN FOR STABILITY	11
2.3	DESIGN FOR STRENGTH	11
2.4	DESIGN FOR SERVICEABILITY	11
2.5	DURABILITY	12
2.6	VEHICLE IMPACT	12
SECTIO	ON 3 LOADS AND LOAD COMBINATIONS	
3.1	GENERAL	13
3.2	DEAD LOADS	13
3.3	SNOW AND ICE LOADS	13
3.4	WIND LOADS	14
3.5	EARTHQUAKE LOADS	15
3.6	LIVE LOADS AND MAINTENANCE LOADS	15
3.7	AERIAL CABLE LOADS	15
3.8	LOADS ON FLAGS AND BANNERS	19
3.9	DESIGN LOAD COMBINATIONS	19
SECTIO	ON 4 DESIGN REQUIREMENTS FOR MATERIALS	
4.1	STEEL	21
4.2	CONCRETE	
4.3	TIMBER	
4.4	OTHER MATERIALS	
SECTIO	ON 5 ADDITIONAL DESIGN CONSIDERATIONS	
5.1	GENERAL	
5.2	AERIAL CONDUCTOR POLES	
5.3	LIGHTING POLES	
5.4	TRAFFIC SIGNAL POLES	
5.5	ELECTROMOTIVE TRANSPORT SYSTEM POLES	
5.6	COMMUNICATION POLES	
5.7	POLES FOR OTHER PURPOSES	
5.8	ACCESS, INSPECTION AND MAINTENANCE	
5.9	REPAIRS	



This is a free preview. Purchase the entire publication at the link below:

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation