

AS 2209—1994

Australian Standard<sup>®</sup>

---

**Timber—Poles for overhead lines**

---

This Australian Standard was prepared by Committee TM/3, Timber Grading. It was approved on behalf of the Council of Standards Australia on 2 February 1994 and published on 18 April 1994.

---

The following interests are represented on Committee TM/3:

CSIRO, Division of Building Construction and Engineering  
Housing Industry Association  
Master Builders Australia  
National Association of Forest Industries, Australia  
New Zealand Forest Research Institute  
New Zealand Timber Industry Federation  
New Zealand Timber Suppliers Group  
University of Technology, Sydney

Additional interests participating in preparation of Standard:

Local Government Electricity Association of New South Wales

---

**Review of Australian Standards.** To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

---

*This Standard was issued in draft form for comment as DR 92137.*

AS 2209—1994

Australian Standard<sup>®</sup>

---

## **Timber—Poles for overhead lines**

---

First published as SAA Int.364—1952.  
Revised and redesignated AS O117—1970.  
Revised and redesignated AS 2209—1979.  
Second edition 1994.

Incorporating:  
Amdt 1—1997

PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 8812 8

## PREFACE

This Standard was prepared by the Standards Australia Committee TM/3 on Timber Grading to supersede AS 2209—1979, *Timber poles for overhead lines*. It was developed from a document prepared by a working group with representation from New South Wales timber pole purchaser and supplier interests which was organized by the Local Government Electricity Association of New South Wales.

The revision was undertaken because the existing document did not meet the present needs of timber pole purchasers and suppliers. In particular, its preservative treatment requirements and quality provisions did not relate to current practices.

In preparing this Standard, reference was made to AS 1604 *Timber—Preservative-treated—Sawn and round*. The procedures that it uses for specifying minimum preservative retention were adopted. The actual retentions nominated may, however, be higher for Copper Chrome Arsenic (CCA) preservatives as a consequence of the established preferences of the New South Wales electricity supply industry.

The principal changes are:

- (a) Addition of a ‘purchasing guidelines’ appendix.
- (b) Inclusion of a quality requirements clause and related appendices which provide a range of optional means for complying with its provisions.
- (c) Inclusion of clauses giving purchasers the option of asking for formal confirmation of compliance with the Standard.
- (d) Spiral grain requirements for hardwood poles.
- (e) Measurement of spiral grain by the ‘gradient’ method used for other timber products.
- (f) Reference to pentachlorophenol (PCP) has been deleted.
- (g) Emulsified form of creosote recognized.
- (h) Preservative retention specified—
  - (i) on a per pole instead of charge lot basis;
  - (ii) on both a mass/mass and mass/vol. basis with the former nominated as the ‘legal’ requirement; and
  - (iii) as active elements as well as total preservative formulation in the case of CCA.
- (i) A substantial increase in CCA retentions specified.

In addition, changes have been made to style, format and expression to accommodate current Standards Australia practice.

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

	<i>Page</i>
<b>SECTION 1 SCOPE AND GENERAL REQUIREMENTS</b>	
1.1 SCOPE . . . . .	5
1.2 APPLICATION . . . . .	5
1.3 REFERENCED DOCUMENTS . . . . .	5
1.4 DEFINITIONS . . . . .	6
1.5 SIZE AND FORM OF POLE . . . . .	7
1.6 PREPARATION OF POLE . . . . .	7
1.7 MEASUREMENT OF KNOTS . . . . .	7
1.8 NUMERICAL RATINGS FOR END SPLITS AND BARREL CHECKS . . . . .	7
1.9 SPECIES BRANDING . . . . .	8
1.10 DEMONSTRATING COMPLIANCE . . . . .	8
 <b>SECTION 2 POLES INTENDED FOR USE WITHOUT FULL-LENGTH PRESERVATIVE TREATMENT</b>	
2.1 TIMBER SPECIES . . . . .	11
2.2 GRADE DESCRIPTION . . . . .	11
2.3 CONFIRMATION OF COMPLIANCE . . . . .	12
 <b>SECTION 3 HARDWOOD POLES INTENDED FOR USE AFTER FULL-LENGTH PRESERVATIVE TREATMENT</b>	
3.1 TIMBER SPECIES . . . . .	13
3.2 GRADE DESCRIPTION . . . . .	13
 <b>SECTION 4 SOFTWOOD POLES INTENDED FOR USE AFTER FULL-LENGTH PRESERVATIVE TREATMENT</b>	
4.1 TIMBER SPECIES . . . . .	15
4.2 GRADE DESCRIPTION . . . . .	15
 <b>SECTION 5 REQUIREMENTS FOR FULL-LENGTH PRESERVATIVE TREATMENT</b>	
5.1 POLES FOR PRESERVATIVE TREATMENT . . . . .	17
5.2 PRESERVATIVES . . . . .	17
5.3 PRESERVATIVE PENETRATION . . . . .	17
5.4 PRESERVATIVE RETENTION . . . . .	18
5.5 DETERMINATION OF TREATMENT RESULTS . . . . .	18
5.6 SURFACE CONDITION . . . . .	19
5.7 CONFIRMATION OF COMPLIANCE . . . . .	19
5.8 IDENTIFICATION . . . . .	20
5.9 TREATMENT RECORDS . . . . .	21
 <b>APPENDICES</b>	
A PURCHASING GUIDELINES . . . . .	23
B TIMBER SPECIES DURABILITY CLASSIFICATIONS AND IDENTIFICATION BRANDS . . . . .	24
C MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD . . . . .	26

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

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-