

Australian Standard[®]

**SYMBOLS FOR GRAPHICAL
REPRESENTATION OF COAL
SEAMS AND ASSOCIATED
STRATA**

This Australian standard was prepared by Subcommittee MN/1/5, Coal Mining and Geology under the supervision of Committee MN/1, Coal and Coke. It was approved on behalf of the Council of the Standards Association of Australia on 28 October 1986 and published on 5 December 1986.

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Australian Coal Association
Australian Coal Industry Research Laboratories Ltd
Australian Institute of Energy
Bureau of Steel Manufacturers of Australia
Coal Preparation Societies of New South Wales and Queensland
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PREFACE

This edition of this standard was prepared by the Association's Subcommittee on Coal Mining and Geology under the supervision of the Committee on Coal and Coke and the direction of the Minerals Standards Board to supersede AS K183 — 1970, Symbols for the Graphical Representation of Coal Seams.

Graphical representation of coal seams and associated strata permits a rapid appraisal of coal seams and geological sections without reference to lengthy written descriptions. The graphic sections are invaluable for correlation between borehole logs or outcrop sections.

Description of coal seam plies and subsections in terms of their overall megascopic appearance is well established. The macroscopic appearance of many coals, particularly higher rank materials, is generally best described by terms based on the relative abundance of dull and bright lithotypes. Other coals, however, including many lower rank materials, are often more satisfactorily described by terms based on colour and texture. Definitions of higher rank and lower rank coals can be found in AS 2096.

Two systems of symbolic representation for coal lithotypes are given in this standard; one is based on shading (preferred) and the other on close-spaced diagonal lines (alternative).

Although the same symbol is shown for 'coal, undifferentiated' and 'coal, bright', the two are never used together on the same representation. An alternative symbol for 'coal, undifferentiated' is provided, for use when confusion is likely to arise.

A series of symbols is provided, as an appendix to this standard, to represent the non-coal rock types and mixtures of non-coal rock types commonly associated with coal seams.

Symbols for the different classes of material have been assigned an abbreviation. These abbreviations may be used, instead of the graphic symbols, up to the stage where formal graphic presentation is required. No abbreviations have been assigned, however, to mixtures of two or more rock types.

The scope of this document is limited in the interests of simplicity. If further information needs to be conveyed, it is recommended that this should be done by written description.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

**SYMBOLS FOR GRAPHICAL REPRESENTATION OF COAL SEAMS
AND ASSOCIATED STRATA**

1 SCOPE. This standard illustrates recommended symbols and abbreviations for lithotypes for use in the graphical representation of coal seams and associated strata.

NOTE: Although the standard shows the same symbol for 'coal, undifferentiated' and 'coal, bright', the two symbols are never used in the same representation.

Appendix A is a list of suggested symbols for the representation of non-coal rocks and interstratified rocks.

The physical characteristics of air-dry lower rank coal lithotypes are given in Appendix B.