

Australian Standard[®]

**Symbols for graphic representation of
coal seams and associated strata**



This Australian Standard® was prepared by Committee MN-001, Coal and Coke. It was approved on behalf of the Council of Standards Australia on 6 February 2007. This Standard was published on 23 February 2007.

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- Australasian Institute of Mining and Metallurgy
 - Australian Building Codes Board
 - Australian Coal Association
 - Australian Coal Preparation Society
 - Australian Institute of Energy
 - Coalfield Geology Council of NSW
 - CSIRO, Energy Technology
 - Department of Mines and Energy (Qld)
 - Minerals Council of Australia
 - National Generators Forum
 - University of New South Wales
 - University of Queensland
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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 2916—2007

Symbols for graphic representation of coal seams and associated strata

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NOTES

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PREFACE

This Standard was prepared by the Standards Australia Committee MN-001, Coal and Coke, to supersede AS 2916—1986.

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, *Classification and coding systems for Australian coals*.

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 objective of this Standard is to provide a simplistic graphical representation of geological strata associated with coalfields.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard**Symbols for graphic 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 this 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.