



Soils for landscaping and garden use



This Australian Standard® was prepared by Committee CS-037, Garden Soils and Potting Mixes. It was approved on behalf of the Council of Standards Australia on 31 October 2018. This Standard was published on 21 December 2018.

The following are represented on Committee CS-037:

- Australian Institute of Horticulture
 - Australian Institute of Landscape Architects
 - Australian Organics Recycling Association
 - Centre for Organic Research and Education
 - Department of Environment and Science, Qld
 - Horticulture Innovation Australia
 - NSW Department of Industry
 - NSW Environment Protection Authority
 - Nursery and Garden Industry Australia
 - Soil Science Australia
 - TAFE NSW
 - Waste Management Association of Australia
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard[®]

Soils for landscaping and garden use

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PREFACE

This Standard was prepared by the Standards Australia Committee CS-037, Garden Soils and Potting Mixes, to supersede AS 4419—2003.

The objective of this Standard is to provide manufacturers with a set of requirements which will ensure that soils can support plant growth and to give users, such as growers, landscape architects and consumers, assurance of the suitability and quality of soils.

The principal differences between this and the previous edition are as follows:

- (a) Soil classifications have been revised and changed from classification by bulk density to classification by end use, fitness for purpose and specific application.
- (b) Specification parameters have been reviewed, and some have been removed for certain products, and others added, in order to produce a testing regime which will more closely determine a product's properties and potential performance in use.
- (c) The test methods were extensively reviewed and new or revised test methods added where necessary to cover changed specification parameters. An alternative test method to the root elongation test method set out in Appendix I has been nominated.
- (d) Compliance with national health standards has been expanded to include chemical contamination, biosecurity and physical contamination.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

The terms 'normative' and 'informative' are used in Standards to define the application of the appendices to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

This Standard includes a commentary on some of the clauses. The commentary directly follows the relevant clause, is designated by 'C' preceding the clause number and is printed in italics in a box. The commentary is for information and guidance and does not form part of the Standard.

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FOREWORD

Due to the complexities of soil science, the large number of different soil types that occur in nature and the fact that many soils now sold for use in landscapes and gardens are blends of organic and mineral components, soils that meet the general requirements of this Standard have a wide range of properties.

Some plants have a distinct preference for soils with particular properties, therefore the appropriate soil should be carefully selected if optimum results are desired. Consequently, additional information on the suitability of soils with various properties for particular situations is provided. When in doubt, the consumer should seek specialist advice. In many cases the addition of fertilizer will also be necessary to achieve satisfactory results.

As there are various terms for soils of different types, this Standard defines the major types and gives information on soil selection and use in an Appendix.

Products conforming with AS 4454, *Compost, soil conditioners and mulches*, are required to meet chemical contaminant criteria for unrestricted use. Therefore, the use of composts conforming with AS 4454 as ingredients in landscaping soil blends will ensure that chemical contaminants levels are not undesirably high in soils.

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