AS 1289.6.1.1:2014
(Incorporating Amendment No. 1)

Australian Standard®

AS 1289.6.1.1:2014

Methods of testing soils for engineering purposes

Method 6.1.1: Soil strength and consolidation tests—Determination of the California Bearing Ratio of a soil—Standard laboratory method for a remoulded specimen

PREFACE

This Standard was prepared by the Standards Australia Committee CE-009, Testing of Soil for Engineering Purposes, as part of its ongoing program to revise the AS 1289 series on the testing of soils, to supersede AS 1289.6.1.1—1998.

This Standard incorporates Amendment No. 1 (April 2017). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

In order to improve the reproducibility of the test, this edition includes specific provisions for the control of moisture at compaction. The water content is required to be within 0.5% of the target moisture content before curing, and minimum curing times are specified. The method of compaction has also been more strictly defined, as has the adjustment of the load-penetration curves.

NOTE: For further information on the differences between this and the previous edition with respect to improving the reproducibility of the test, see Appendix B.

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.

METHOD

1 SCOPE

This Standard sets out a method for determining the California Bearing Ratio (CBR) of a soil when compacted and tested in the laboratory. The CBR value is measured on the fraction of material passing the 19 mm sieve.

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NOTES:

1 Where there is a significant amount of material retained on the 19 mm sieve, the strength of the soil may be much greater than indicated by the results of this test and this may need to be taken into account in design or in selection of suitable materials for construction.

2 Guidance on improving the reproducibility of the test is provided in Appendix B.