

STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1289.5.6.1—1998

Methods of testing soils for engineering purposes

Method 5.6.1: Soil compaction and density tests—Compaction control test—

Density index method for a cohesionless material

RECONFIRMATION NOTICE

Technical Committee CE-009 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 17 December 2015.

The following are represented on Technical Committee CE-009:

Association of Geotechnical Testing Authorities (Qld)
Australian Building Codes Board
Australian Chamber of Commerce and Industry
Australian Geomechanics Society
Australian Stabilisation Industry Association
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Cement Concrete & Aggregates Australia – Aggregates
Engineering & Construction Laboratories Association
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NOTES

Australian Standard®

Methods of testing soils for engineering purposes

Method 5.6.1: Soil compaction and density tests—Compaction control test—Density index method for a cohesionless material

1 SCOPE This method sets out a procedure for calculating the density index of a cohesionless material using the field dry density and laboratory minimum and maximum dry densities of the same material.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

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| 1289 | Methods of testing soils for engineering purposes |
| 1289.2.1.1 | Method 2.1.1: Soil moisture content tests—Determination of the moisture content of a soil—Oven drying method (standard method) |
| 1289.2.1.2 | Method 2.1.2: Soil moisture content tests—Determination of the moisture content of a soil—Sand bath method (subsidiary method) |
| 1289.2.1.4 | Method 2.1.4: Soil moisture content tests—Determination of the moisture content of a soil—Microwave-oven drying method (subsidiary method) |
| 1289.2.1.5 | Method 2.1.5: Soil moisture content tests—Determination of the moisture content of a soil—Infrared lights method (subsidiary method) |
| 1289.2.1.6 | Method 2.1.6: Soil moisture content tests—Determination of the moisture content of a soil—Hotplate drying method (subsidiary method) |
| 1289.2.3.1 | Method 2.3.1: Soil moisture content tests—Establishment of correlation—Subsidiary method and the standard method |
| 1289.5.3.1 | Method 5.3.1: Soil compaction and density tests—Determination of the field density of a soil—Sand replacement method using a sand-cone pouring apparatus |
| 1289.5.3.2 | Method 5.3.2: Soil compaction and density tests—Determination of the field dry density of a soil—Sand replacement method using a sand pouring can with or without a volume displacer |
| 1289.5.5.1 | Method 5.5.1: Soil compaction and density tests—Determination of minimum and maximum dry density of a cohesionless material—Standard method |
| 1289.5.8.1 | Method 5.8.1: Soil compaction and density tests—Determination of field density and field moisture content of a soil using a nuclear surface moisture-density gauge—Direct transmission mode |

3 PROCEDURE The procedure shall be as follows:

- (a) Determine the field wet density of the soil (ρ) by the method described in AS 1289.5.3.1, AS 1289.5.3.2 or AS 1289.5.8.1, as appropriate.