

Australian Standard[®]

Methods of testing soils for engineering purposes

Method 5.4.1: Soil compaction and density tests—Compaction control test—Dry density ratio, moisture variation and moisture ratio

1 SCOPE

This Standard sets out the method for determining the dry density ratio, moisture variation from optimum moisture content and moisture ratio of a soil at a test site. It is applicable to material that contains not more than 20% of material, on a wet basis, retained on the 37.5 mm sieve.

2 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this document:

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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 |
| 1289.2.3.1 | Method 2.3.1: Soil moisture content tests—Establishment of correlation—Subsidiary method and the standard method |
| 1289.3.5.1 | Method 3.5.1: Soils classification tests—Determination of the soil particle density of a soil—Standard method |
| 1289.5.1.1 | Method 5.1.1: Soil compaction and density tests—Determination of the dry density/moisture content relation of a soil using standard compactive effort |
| 1289.5.2.1 | Method 5.2.1: Soil compaction and density tests—Determination of the dry density/moisture content relation of a soil using modified compactive effort |
| 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 density of a soil—Sand replacement method using a sand pouring can with or without a volume displacer |
| 1289.5.3.5 | Method 5.3.5: Soil compaction and density tests—Determination of the field dry density of a soil—Water replacement method |