

# Australian Standard<sup>®</sup>

AS 5101.4—2008

## Methods for preparation and testing of stabilized materials

### Method 4: Unconfined compressive strength of compacted materials

#### 1 SCOPE

This Standard sets out the method for determining the unconfined compressive strength of compacted specimens of unbound, bound and self-cementing materials.

This method is applicable to the control testing of field or plant mix materials and for the assessment of the strength of materials mixed in the laboratory.

The test is conducted on that portion of the material that passes the 19.0 mm sieve.

NOTE: The exclusion of a large proportion of stone coarser than 19.0 mm may have a major effect on the unconfined compressive strength determined compared with that obtainable with the material as a whole.

#### 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

##### AS

- |            |   |
|------------|---|
| 1141       | Methods for sampling and testing aggregates   |
| 1141.1     | Method 1: Definitions   |
| 1141.2     | Method 2: Basic testing equipment   |
| 1152       | Specification for test sieves   |
| 1289       | Methods of testing soils for engineering purposes   |
| 1289.1.2.1 | Method 1.2.1: Sampling and preparation of soils—Disturbed samples—Standard method   |
| 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)                        |
| 1289.5.1.1 | 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 |
| 2173       | Calibration and classification of force-measuring systems   |

#### 3 DEFINITIONS

For the purpose of this Standard, the definitions in AS 1141.1 and those below apply.