Australian Standard™

Methods of testing soils for engineering purposes

Method 6.1.2: Soil strength and consolidation tests—Determination of the California Bearing Ratio of a soil—Standard laboratory method for an undisturbed specimen

1 SCOPE This Standard sets out the procedure for the determination of the California Bearing Ratio (CBR) of an undisturbed sample of soil. The method is applicable to both fine-grained and medium-grained soils as defined in AS 1289.0.

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

AS

1152	Specification for test sieves
1289	Methods of testing soils for engineering purposes
1289.0	Method 0: General requirements and list of methods
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)
1289.5.3.1	Method 5.3.1: Soil compaction and density tests—Determination of 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 field dry density of a soil—Sand replacement method using a sand pouring can, with or without a volume displacer
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
1289.6.1.1	Method 6.1.1: Soil strength and consolidation tests—Determination of the California Bearing Ratio—Standard laboratory method for a remoulded specimen
2103	Dial gauges and dial test indicators
2193	Methods for calibration and grading of force-measuring systems of testing machines

3 APPARATUS The following apparatus shall be used:

(a) Steel penetration piston of a 49.6 ±0.1 mm diameter over the length of penetration and at least 150 mm long. The length of the piston will depend upon the number of surcharges and the depth of penetration required.