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CBR (California Bearing Ratio)



Description

CBR, the California Bearing Ratio test was developed by The California State highway department and is widely used to evaluate the potential strength of subgrade, subbase, and base course materials, including recycled materials for use in the design of road and airfield pavements. The test is outlined in ASTM D1883 and AASHTO T193. The test involves a simple penetration test using a load frame and a standard, compacted CBR test mold of the material to be tested. The results of the test are then compared and evaluated to known standards already established for the material being tested.

ASTM D1883 covers the determination of the CBR or California Bearing Ratio of pavement subgrade, subbase, and base course materials from laboratory compacted specimens. The test method is primarily intended for, but not limited to, evaluating the strength of materials having maximum particle size less than 3/4 in. (19 mm).