



GROUND TECHNOLOGY



## California Bearing Ratio (CBR) Test

The CBR test is still widely used to facilitate pavement design by indirectly assessing sub-grade strength, despite more appropriate methods being available. Ground Technology has in house capabilities of completing insitu CBR testing. The process involves forcing a plunger of known area into the ground at a constant rate. The relationship between force and penetration measured during the test is plotted graphically on the records and a comparison is made to the behaviour of a standard material to give the CBR of the tested soil at certain values of penetration. The test procedure is carried in accordance with BS 1377: 1990: Part 9, In-situ Tests. Equivalent CBR values can also be obtained using the TRL Dynamic Cone Penetrometer method.