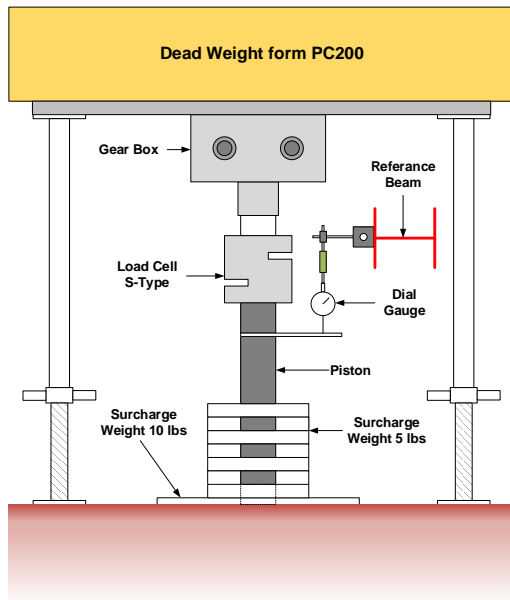


Schematic of Field California Bearing Ratio (CBR) Test



The California Bearing Ratio (CBR) test was originally developed by the California Division of Highways. Here a piston, with an area of 19.4 cm² (3 in²) is penetrated through soil sample at a rate of 1.25 mm/min (0.05 in/min). The load was measured accordingly with penetration rate. The California Bearing Ratio of the soil is defined as the ratio (expressed in percentage) between the pressure required to penetrate the first 0.25 cm (0.1 in) for soil sample and the pressure required to obtain the same amount of penetration in the selected material taken as reference.

Standard Pressures for CBR Penetrations on Reference Material

Penetration		Reference Piston Pressure kg/cm ²
cm	Inch	
0.25	0.1	70
0.50	0.2	100

Field Test



Result

