

California Bearing Ratio Test (data for density)

Location		Job ref.	
		Borehole/Pit no.	
Soil description		Sample No.	
		Depth	m
Sample prep. method BS1377: Part 4: 1990: 7.2.3/7.2.4/7.2.5*			
Preparation procedure	Static, _____ layer(s), with/without tamping* 2.5 kg rammer/ 4.5 kg rammer/ vibrating hammer*		
	Specified density* _____ Mg/m ³	Volume of mould V _____ cm ³	Specified effort* _____ layers _____ blows per layer
*Calculated mass of soil required (m ₁)		g	
*Mass of mould + baseplate + soil (m ₃)		g	
*Mass of mould + baseplate (m ₂)		g	
*Mass of soil (m ₃ -m ₁)		g	
*Soaking time		days	
*Time for water to appear at top of sample			
*Final swell		mm	
*Mass of mould + baseplate + soil after soaking (m ₄)		g	
*Mass of soil after soaking (m ₄ -m ₂)		g	
Maximum bearing ratio from plotting chart		%	
Bulk density (unsoaked)	*P=m ₁ /V		Mg/m ³
	*P=(m ₃ -m ₂)/V		Mg/m ³
Moisture content (w)		%	
*Dry density (unsoaked)			
Pd=100P/(100+w)		Mg/m ³	
*Delete as appropriate			
		Operator	Checked
		Approved	