

BS 1377 : Part 5 : 1990

Consolidation undrained triaxial compression test with measurement of pore pressure

Location	Job ref.	
	Borehole/Pit no.	
Soil description	Sample No.	
	Depth	m
	Date	

Test method BS1377: Part 8: 1990 Clause 7

Pressure system no.	Membrane	Start compression	Failure	Max.deviator stress	Nominal σ_3'	kPa
Cell no.	Thickness mm	L_c mm	Criterion*	Max.stress ratio	Cell pressure	kPa
Machine no.	With/without*	A_c mm ²		Critical state	Machine speed	mm/min
Force device no.	side drains	V_c cm ²		Axial strain of %	Rate of strain	% per h

Date	Time	Axial strain			Area A_s mm ²	Axial force				Pore Pressure		Deviator stress			Principal stresses				A Coeff.	Stress Path*	
		Reading	ΔL mm	ϵ		Reading R	Diff- erence $R - R_o$	C_r N/div	P N	u kPa	$u - u_o$ kPa	$(\sigma_1 - \sigma_3)_m$ kPa	$\sigma_{mb} + \sigma_{dr}$ kPa	$(\sigma_1 - \sigma_3)$ kPa	σ_1 kPa	σ_1' kPa	σ_3' kPa	Ratio σ_1' / σ_3'		$\frac{u - u_o}{\sigma_1 - \sigma_3}$	s' kPa
			0	0			0		0			0						1			0

Operator	Checked	Approved

*Delete as appropriate