

Laboratory Test Sheet

CALIFORNIA BEARING RATION TEST

Client : Alfred McAlpine Civil Engineering Site : Stanton North Phase II
 Client Ref : 12345 Lab. Ref : 10073 Job No : B4240/96V Date Received : 04/09/1996
 Supplier : Source :
 Material Type : Sub-base Specification : Type 1 Sub-base
 Material Name : Type 1 Sub-base Aggregate Type : Not Known

Force measuring device no.	Unsoaked/soaked	As appropriate*
Ring Factor	Mean calibration	N/div
Wt. sample before sieving =	% Retd. 20mm = NOT>25%	
Wt. retained on 20mm sieve =		
Wt. passing 20mm sieve =		

Penetration of plunger mm	Force gauge reading div		Force on plunger kN		Penetration of plunger mm	Force gauge reading div		Force on plunger kN	
	Top	Bottom	Top	Bottom		Top	Bottom	Top	Bottom
0									
0.25					4.00				
0.50					4.25				
0.75					4.50				
1.00					4.75				
1.25					5.00				
1.50					5.25				
1.75					5.50				
2.00					5.75				
2.25					6.00				
2.50					6.25				
2.75					6.50				
3.00					6.75				
3.25					7.00				
3.50					7.25				
3.75					7.50				

Weight of Wet Soil and Mould + Baseplate (W1)	=		g			
Weight of Mould + Baseplate (W2)	=		g			
Weight of Wet Soil (W3)	=		g			d x 100
(d) Bulk Density (W3 x 0.434)/100	=		Mg/m ³	Dry Density (100 + W)	=	Mg/m ³
Container No.						
Mass of Wet Soil + Container (M2)	g					
Mass of Dry Soil + Container (M3)	g					
Mass of Container (M1)	g					
Mass of Moisture (M2)	g					
Mass of Dry Soil (M3 - M1)	g					
Moisture Content W = ((M2 - M3)/(M3 - M1)) * 100 %						
Average Moisture Content						

Test on Top Face	unsoaked/soaked
Test on Bottom Face	unsoaked/soaked

Standard Forces	
2.5mm = 13.2 kN	5.0mm = 20.0 kN

CBR Value at penetration of:		
	2.5mm	5.0mm
Top %		
Bottom %		
Average CBR =		

California Bearing Ratio Test (graph)

Equipment Check
 Calibration Check
 Sieve Check

Tested By : _____ Date: _____ Checked By: _____ Date: _____