

Laboratory Test Sheet

300mm SHEAR BOX TEST

Client : Alfred McAlpine Civil Engineering
 Client Ref : 12345 Lab. Ref : 10073
 Supplier :
 Material Type : Sub-base
 Material Name : Type 1 Sub-base

Site : Stanton North Phase II
 Job No : B4240/96V Date Received : 04/09/1996
 Source :
 Specification : Type 1 Sub-base
 Stone Type : Not Known

Compaction: Vibrating Hammer

Maximum dry Density Mg/m³
 Optimum Moisture Content %

Sample Preparation:

Target dry density = Max. dry density * 92 +/- 2%
 Target bulk density = Max. dry density *(100+Opt.M/C)/100*(92/100) Mg/m³
 Target volume = 0.3*0.3*0.15 = 0.0135m³
 Target Weight = 0.0135*Target bulk density*1000 kg

Moisture Contents:	Natural	Test 1	Test 2	Test 3
Tin No.				
Weight of Tin g				
Tin and Wet Soil g				
Time in Oven				
Time out of Oven				
(1) Weight of dry soil + tin g				
Time in Oven				
Time out of Oven				
(2) Weight of dry soil + tin g				
(A) Difference in wt(1) and wt(2)				
(B) Weight of wet soil*0.1% g				
If A<B then tick box				
Loss of Moisture g				
Weight of Dry Soil g				
Moisture Content %		C1	C2	C3

Weight of each layer				
	Test 1	Test 2	Test 3	
1st				kg
2nd				kg
3rd				kg
Total	w1	w2	w3 (W)	kg

Measurement from top of box, Test 1

1	2	3
4	5	6
7	8	9

Average depth (D) D1 (D) mm
 Actual Volume = 0.3*0.3D v1 (V)m³

Measurement from top of box, Test 2

1	2	3
4	5	6
7	8	9

Average depth (D) D2 (D) mm
 Actual Volume = 0.3*0.3D v2 (V)m³

Measurement from top of box, Test 3

1	2	3
4	5	6
7	8	9

Average depth (D) D3 (D) mm
 Actual Volume = 0.3*0.3D v3 (V)m³

Settings and Density:

Bulk density of material in Shearbox = (W/V)/1000 = Mg/m³
 Dry density of material = Bulk density/(100 + C/100) = Mg/m³
 Normal stress = KN/m²

Test 1	Test 2	Test 3	
			Rate of Strain mm/min

Time	TEST 1		TEST 2		TEST 3		Time	TEST 1		TEST 2		TEST 3	
	Normal Stress	Shear Stress	Normal Stress	Shear Stress	Normal Stress	Shear Stress		Normal Stress	Shear Stress	Normal Stress	Shear Stress	Normal Stress	Shear Stress

Comments : _____
 Tested By : _____ Date : _____ Checked By : _____ Date : _____
 Check Level (1/2/3)

Notes : * Delete as applicable