

Laboratory Test Sheet

Bulk Density of Aggregate Voids and Bulking : BS812 Section 2

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

		Test 1	Test 2	Test 3	Test 4
Weight Container + Compacted/Uncompacted* Aggregate	A (g)				
Weight of Container	B (g)				
Weight Compacted/Uncompacted* Aggregate	C (g)				
Volume of Calibrated Container	V (m3)				
Bulk Density	$b = (A - B) / V$				
Percentage Voids =	$100 * ((a - (b / 100))/a)$				
Percentage Bulking at Test Moisture Content	$= (b1 * (100 + M)/C) - 100$				

	*Oven Dry/ Saturated/ SSD	*Oven Dry/ Saturated SSD
a =	Relative density (Oven Dried) of Aggregate	
b =	Bulk density (Oven Dried)	
b1 =	Uncompacted bulk density of Oven Dried Fine Aggregate	
c =	Uncompacted bulk density of Fine Aggregate at test Moisture Content	
M =	Test Moisture Content	

Comments : _____

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

Check Level (1/2/3)

- Note:- * Delete as appropriate
1. Report Bulk Density to Nearest 10kg/m3
 2. Report Voids and Bulking to Nearest whole Number
 3. Condition of sample at time of test (o.d/Satd/ssd)