



Soil Property Testing Ltd.

Materials Division



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Specification for Housing Estate Road Sub-base (HER)

**TESTING REQUIRED FOR COMPLIANCE TO EUROPEAN and BRITISH STANDARDS.
 (BS EN 933:Part1:1997. BS1377 :1990. and BS 812)**

	Test	Method	Amount reqd.	Compliance
1	Particle Size Distribution	BS EN 933-1	See Table 7/3	Table 9A HER Construction Guide 2011
	Particle Size Distribution	BS EN 933-1	See Table 7/3	Or SHW series 800 Table 8/5 Type 1
2	Determination of Plastic Limit including wet sieve prep passing 0.425mm and Liquid Limit	BS1377:Part2:1990	20 grams passing 0.425mm	Non Plastic
3	Ten Percent Fines Test (Soaked)	BS 812:Part 111: 1990	10kg – passing 14mm retained 10mm	40kN
4	Moisture Content	BS EN 1097-5:1999	3.5kg - min	OMC -2+1%
5	Optimum Moisture Content / Maximum Dry Density Relationship Test	BS 1377 :Part 4:1990:3.7	50 kg	
6	Testing for Constituent Materials in Recycled Coarse Aggregate and Recycled Concrete Aggregate (When requested by CCC Engineer)	Specification for Highway Works Series 700 710 and BSEN 933-11	See Table 7/3	Table 8/3
	OTHER TESTS REQUIRED FOR END PRODUCT SITE CONTROL			
A	Moisture Content to check variation from OMC	BS EN 1097-5:1999	3.5kg - min	OMC -2+1%
B	Light Weight Deflectometer (LWD) to assess The Foundation Surface Modulus. Method - by agreement with CCC Engineer, either: a Line of tests along the centre line of carriageway b Staggered 1m from kerb line alternate sides c Staggered 1m from kerb either side and centreline	Design Guide for Road Pavement Foundations Advice Note 73/06 Rev 1:1990	In-situ test on compacted sub-base Roads <100m long test every 5.0m >100m test every 10m	Rolling mean of 6 results must be greater than 80mPa – No individual result below 50 mPa accepted

Note : CBR values of sub-grade for design purposes are to be derived from plasticity index testing (or PSD if granular soils) from Table 2A of the CCC Design Guide for Housing Estate Roads