



Soil Property Testing Ltd.

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Specification for Housing Estate Road Sub-base (HER)

TESTING REQUIRED FOR COMPLIANCE TO EUROPEAN STANDARDS (BS EN 13285)

Grading designation 0/31.5G_P, Max fines UF₉, Oversize OC₇₅. G_P (SHW table 8/1)

	Test	Method	Amount required	Compliance	Cost
1	Particle Size Distribution	BS EN 933-1	40kg	Table 9A HER Construction Guide	£56.00
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	£24.25
3	Ten Percent Fines Test (Soaked)	BS 812:Part 111	10kg – passing 14mm retained 10mm	40kN	£99.00
4	Water Content	BS EN 1097-5	3.5kg minimum	OMC -2+1%	£6.00
5	Optimum Moisture Content / Maximum Dry Density Relationship Test	BS 1377 :Part 4:1990 OR BSEN13286-4	50 kg		£115.50
6	Testing for Constituent Materials in Recycled Coarse Aggregate and Recycled Concrete Aggregate (when requested by a CCC Engineer)	BSEN 933-11	20kg	Table 8/3	£130.00
OTHER TESTS REQUIRED FOR END PRODUCT SITE CONTROL					
A	Moisture Content to check variation from OMC	BS EN 1097-5	3.5kg - min	OMC -2+1%	£6.00
B	Light Weight Deflectometer (LWD) to assess The Sub-base 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	In-situ test on compacted sub-base Roads <100m long test every 5.0m >100m test every 10m	Rolling mean of 5 results must be greater than 80mPa – No individual result below 50 mPa accepted	£350.00 Half Day £500 Full Day

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