



Soil Property Testing Ltd.

Materials Division



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MPT INFORMATION PAPER –SH4 803 April 2008

Specification for Highway Works Clause 803 – Granular Sub-base material TYPE 1

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 reqd.	Compliance
1	Particle Size Distribution	BS EN 933-1	See Table 7/3	Table 8/5
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	Resistance to Fragmentation – Los Angeles Test	BS EN 1097-2:1998	10kg – passing 14mm retained 10mm	LA ₅₀
4	Resistance to Freezing and Thawing – Magnesium Sulphate Soundness Test	BS EN 1367-2:1998	2kg – passing 14mm retained 10mm	MS ₃₅
5	Water Absorbtion Test	BS EN 1097-6:2000		WA ₂₄ NR supplier to state
6	Testing for Constituent Materials in Recycled Coarse Aggregate and Recycled Concrete Aggregate	Specification for Highway Works Series 700 710 and BSEN 933-11	See Table 7/3	Table 8/3
OTHER TESTS REQUIRED FOR PARTICULAR CONDITIONS				
A	Frost Heave (If material within 450mm of final road surface) – With Vibrating Hammer compaction	BS812:Part 124:1989 + SHW Amendment	80 Kg	Less than 15mm
B	Water Soluble Sulfate (Test No. 1) Oxidisable Sulfides (Test No. 2 and No. 4) Total Potential Sulfate (Test No. 4)	TRL Report 447 – BS EN 1744-3	2kg	SHW Clause 801
C	Volume stability of blast furnace slag Dicalcium Silicate and Iron Disintegration	BE EN 1744-1:1998 19.1 & 19.2		Free from both
D	Volume stability of steel (BOF & EAF) slags			V ₅
E	All other BS EN 13242 aggregate requirements			N _R