



SAMPLE SIZE INFO

Test Description	Brief Definition	Test Method TMH 1	Minimum Sample Size	Required Testing Time
Asphalt mix design	Determination of the Marshall properties (ie BRD, Rices, Air Voids, Stability, Flow) obtained on compacted asphalt briquettes at a specified grading after addition of different percentages of binder	C1	Coarse : 100 kg per agg. Fine : 50 kg per agg. (Note : in addition 5 litres of the binder and any filler to be used must be supplied)	10 working days
Marshall Tests	Determination of the Marshall properties (ie BRD, Rices, Air Voids, Stability, Flow), and binder content and grading on premixed asphalt	C2 - C5 C7	Hot asphalt (in a hot box)	3 working days
Asphalt binder content and grading	Determination of the bitumen content in premixed asphalt and sieve analysis of the washed aggregate	C7 + B4	3 kg	3 working days
Aggregate grading	Sieve analysis of coarse or fine aggregate	B4	Coarse : 10 kg Fine : 3 kg	3 working days
Flakiness Index	Determination of the percentage (by mass) of coarse aggregate that will pass through slots with widths that is half of the sieve openings through which each of the fractions pass	B3	10 - 50 kg (dependant on grading)	3 working days
ACV	Determination of the percentage fines obtained when a certain fraction is subjected to a gradually applied load of 400 kN	B1	25 - 50 kg (dependant on grading)	3 working days
Sand Equivalent	A rapid test to show the presence or absence of detrimental fines or clay-like materials in fine aggregate	B19	3 kg	3 working days

Please note that the above table includes the common tests only. For details of other tests please liaise with the Laboratory Manager. The required testing time, as indicated, is applicable where the laboratory can commence testing the sample immediately on receipt. Depending on the number of samples being processed by a section in the laboratory, there may be delays.

IT IS VERY IMPORTANT TO AGREE ON A DUE DATE WITH THE LABORATORY MANAGER.



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Review 28/02/2005

Test Description	Brief Definition	Test Method TMH 1	Minimum Sample Size	Required Testing Time
Indicator test (Road)	Determination of sieve analysis to 0.075mm and Atterberg Limits (LL, PI, LS)	A1 - A5	Fine : 2 kg Medium : 5 kg Coarse : 25 kg Very coarse : 50 -100 kg	4 working days
Foundation Indicator (incl Hydrometer)	Determination of sieve analysis to 0.075mm and particle size distribution to 0.002mm plus Atterberg Limits (LL, PI, LS)	A1 - A5 (+ ASTM D422)	As above	5 working days
Mod AASHTO	Determination of the maximum dry density and optimum moisture content	A7	50 kg	2 working days
Mod AASHTO + CBR	Determination of the California Bearing Ratio - load required to penetrate a standard piston into the sample, expressed as a percentage of the California standard values	A7 + A8	100 kg	Natural : 6 working days Stabilised : 14 working days
UCS Design	Determination of the Unconfined Compressive Strength after the addition of different percentages of stabiliser	A14	200 kg (Note : in addition 10 kg of the stabiliser to be used must be supplied)	Accelerated cured : 6 working days 7 days cured : 10 working days
Stabiliser content (back titration)	Determination of the percentage, by mass, of stabiliser added into natural soil	A15	Test sample : 2 kg Raw sample : 25 kg / section Stabiliser : 2 kg / section (Note: minimum number of test samples per section is 10)	4 working days
Concrete mix design (per design)	Determination of the different mass / volume of the different aggregates, cement, water and additives (if any) to be mixed to obtain a specified class of concrete	Fulton	Coarse : 150 kg per agg. Fine : 100 kg per agg. Cement : 50 kg (Additives as required)	Provisional : 14 calendar days Final : 35 calendar days
Theoretical concrete mix design	As above, but excluding the manufacture and testing of concrete cubes		As above	4 working days
Concrete cube testing	Determination of the compressive strength of already manufactured concrete cubes	D1	Minimum number of 3 cubes per date to be tested	Crushing date + 1 working day (Cubes to be received in the laboratory at least 24 hours before crushing)