



Services

Our Services includes different test scope for each material.

1. Concrete

- Item no. Test description
- 1.1 Compressive strength of concrete cubes including weight, dimensions and density - to
 - a - BS EN 12390-3 & BS EN 12390-7
 - b - BS 1881
- 1.2 Compressive strength of concrete cylinders to BS 1881
- 1.3 Compressive strength, density and visual examination and end preparation, of drilled concrete cores - to BSEN 12504, PART-1
- 1.4 Water absorption of concrete blocks, flags or tiles
- 1.5 Compressive Strength of concrete Blocks to BSEN 772, Part1, A1
- 1.6 Laboratory Trial mixes using materials supplied by the Client - not including design:
 - 1 - Mixing
 - 2 - Making Cubes (9 per mix)
- 1.7 Determination of Rebound Number to BSEN 12504, Part 2

2. Asphalt

- Item no. Test description
- 2.1 Binder Content & Aggregates Grading to ASTM D 2172
SAMPLED BY TH CLIENT
- 2.2 Stability and Flow For Asphalt Plugs
Plugs supplied by the client to :
 - 1- BS 598 : Part 3 : 1985
 - 2- BS EN 12697
- 2.3 Determination of particle distribution for hot mixed asphalt to BS EN 12697-2
- 2.4 Bulk Density of Bituminous Specimen Procedure A dry to BS EN 12697-6 Clause 9.2
- 2.5 Determination of the dimensions of the Bituminous Speciment to BS EN 12697-29
- 2.6 Thickness of the bituminous specimen to BS EN 12697-36
- 2.7 Determination of the void Characteristics of Bituminous Specimen to BS EN 12697-8
- 2.8 Determination of the needle penetration of Binder to BS EN 1426
- 2.9 Density of Drilled Asphalt Cores
- 2.10 Laboratory trial mix using materials supplied by the client. Includes preparing the mixes to specified particle size distribution limits up to four nominal sizes of aggregates at six differing binder contents and testing for marshall stability, marshall flow, density, voids in the mix and voids filled with binder at each binder content
- 2.11 Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures to ASTM D2041/D2041M
- 2.12 Bulk Specific Gravity and Density of Non-absorptive Compacted Bituminous Mixtures to ASTM D2726/D2726M

3. Aggregates

- Item no. Test description
- 3.1 Moisture Content to BS 812



- 3.2 Sieve Analysis to BS 812
Sieve Analysis to BS EN 933-1
- 3.3 Clay, Silt and Dust Content To BS 812
- 3.4 Flakiness Index to BS 812
Flakiness Index to BS EN 933-3
- 3.5 Elongation Index to BS 812
Shape Index to BS EN 933-4
- 3.6 Angularity Number to BS 812
- 3.7 Relative Densities to BS 812
- 3.8 Water Absorption to BS 812
- 3.9 Aggregates Crushing Value to BS 812
- 3.10 Ten Percent Fine to BS 812
- 3.11 Los Angeles Abrasion Test to ASTM C-131
- 3.12 Aggregates Impact Value to BS 812
- 3.13 Soundness test to ASTM C-88
- 3.14 Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing to ASTM C117
- 3.15 Relative Density (Specific Gravity) and Absorption of Coarse Aggregate to ASTM C127
- 3.16 Relative Density (Specific Gravity) and Absorption of Fine Aggregate to ASTM C128
- 3.17 Sieve Analysis of Fine and Coarse Aggregates to ASTM C136/C136M
- 3.18 Clay Lumps and Friable Particles in Aggregates to ASTM C142/C142M
- 3.19 Bulk Density ("Unit Weight") and Voids in Aggregate to ASTM C29/C29M

4. Soils

- Item no. Test description
- 4.1 Moisture Content to BS 1377
- 4.2 Atterberg Limits to BS 1377
- 4.3 Specific Gravity to BS 1377, Test 6
- 4.4 Dry Sieve Analysis to BS 1377
- 4.5 Wet Sieve Analysis to BS 1377
- 4.6 Dry/Density Moisture Content Relationship
Using 4.5 kg Rammer-Automatic Hammer
to BS 1377 test No.
- 4.7 California Bearing Ratio to BS 1377
- 4.8 Soaking for 4 days Related item 4.7
- 4.9 Linear Shrinkage Limit to BS 1377
- 4.10 Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)) (MDD) to ASTM D1557
- 4.11 California Bearing Ratio (CBR) of Laboratory-Compacted Soils to ASTM D1883
- 4.12 Determination of Water (Moisture) Content of Soil and Rock by Mass to ASTM D2216
- 4.13 Liquid Limit, Plastic Limit, and Plasticity Index of Soils to ASTM D2419
- 4.14 Correction of Unit Weight and Water Content for Soils Containing Oversize Particles to ASTM D4718/D4718M
- 4.15 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis to ASTM D6913/D6913M
- 4.16 Sand Equivalent Value of Soils and Fine Aggregate to ASTM D2419

5. Chemical testing

- Item no. Test description
- 5.1 Aggregates, Soil and Rocks
Acid Soluble Sulphates To BS 812
- 5.2 Water Soluble Sulphates
- 5.3 Sulphate Contents To BS 1377
- 5.4 Chloride Contents To BS 812
- 5.5 Water
Sulphate Content
- 5.6 Chloride Contents



6. Field testing

- Item no. Test description
- 6.1 In-situe Density Test
 - a- Sand Replacement Method
 - b- Nuclear Gauge Method
- 6.2 Concrete Cores 100 mm Diameter
- 6.3 Concrete Cores 150mm Diameter
- 6.4 Trimming, Capping And Compressive strength for items 6.2 & 6.3
- 6.5 Plate Bearing Test

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