



## SCOPE OF ACCREDITATION

### Construction Materials Testing

**Al Hoty- Stanger Laboratory LLC**

**Al Musallah Street, Abu Baker Al Siddique Road**

**Kalba, Sharjah-United Arab Emirates**

**Issue No: 01**

**Issue date: 22- 11- 2017**

**Accreditation Certificate No: LB-372-TEST**

Type of Task	Materials/Products	Task Name	Standard method
Physical / Mechanical	Aggregate	Tests for geometrical properties of aggregates Part 1: Determination of particle size distribution. Sieving method	BS EN 933 Part 1
		Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	ASTM C136/136M
		Standard Test Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117
		Standard Test Method for Clay Lumps and Friable Particles in Aggregates	ASTM C142/C142M
		Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C128
		Tests for geometrical properties of aggregates Part 1: Determination of particle size distribution. Sieving method (mass of fines passing the 0.063mm sieve)	BS EN 933 Part 1 Clause A.4.4

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Type of Task	Materials/Products	Task Name	Standard method
Physical / Mechanical	Aggregate	Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127
		Tests for geometrical properties of aggregates Part 7: Determination of shell content. Percentage of shells in coarse aggregates	BS EN 933 Part 7
		Tests for geometrical properties of aggregates Part 3: Determination of particle shape. Flakiness index	BS EN 933 Part 3
		Testing aggregates Methods for determination of particle shape. Elongation index of coarse aggregate	BS 812 105.2
		Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88

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Type of Task	Materials/Products	Task Name	Standard method
Physical / Mechanical	Aggregate	Testing aggregates Part 111: Methods for Determination of Ten Per Cent Fines Value (TFV)	BS 812 Part 111
		Testing aggregates Part 112: Method for determination of Aggregate Impact Value (AIV)	BS 812 Part 112
		Standard Test Method for Resistance to Degradation of Small- Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131/C131M
		Standard Test Method for Resistance to Degradation of Large- Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535
		Testing aggregates Part 110: Methods for determination of aggregate crushing value (ACV)	BS 812 Part 110

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Type of Task	Materials/Products	Task Name	Standard method
Physical / Mechanical	Aggregate	Testing aggregates Methods for determination of particle shape, Flakiness index	BS 812 105.1
		Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419
	Rock	Determination of block integrity/ Determination of drop test breakage index	The Rock Manual CIRIA C683 BS EN 13383-1
		Determination of the mass distribution of light and heavy gradings	The Rock Manual CIRIA C683 BS EN 13383-2 Clause 6
		Determination of the percentage of pieces of armourstone with a length- to thickness ratio greater than 3	The Rock Manual CIRIA C683 BS EN 13383-2 Clause 7
		Determination of particle density and water absorption	The Rock Manual CIRIA C683 BS EN 13383-2 Clause 8

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Type of Task	Materials/Products	Task Name	Standard method
Physical / Mechanical	Rock	Method for determining Point Load strength	RTH – 325 – ISRM 1989
		Tests for mechanical and physical properties of aggregates Part 2: Methods for the determination of resistance to fragmentation by the Los Angeles test method	BS EN 1097 Part 2
		Tests for thermal and weathering properties of aggregates Part 2: Magnesium sulfate test	BS EN 1367 Part 2
	Soil	Methods of test for Soils for civil engineering purposes Part 2: Classification tests Determination of particle size distribution- Wet sieving method	BS 1377 Part 2 Clause 9.2 AMD 9027-96
		Methods of test for Soils for civil engineering purposes Part 2: Classification tests Determination of particle size distribution- Dry Sieving Method	BS 1377 Part 2 Clause 9.3 AMD 9027-96

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Type of Task	Materials/Products	Task Name	Standard method
Physical / Mechanical	Soil	Methods of test for soils for civil engineering purposes  Part 9: In-situ tests  (Sand replacement method suitable for fine and medium grained soils (small pouring cylinder method)	BS 1377 Part 9 Clause 2.1 AMD 17229 July 2007
		Methods of test for soils for civil engineering purposes  Part 9: In-situ tests  (Sand replacement method suitable for fine, medium and coarse grained soils (large pouring cylinder method)	BS 1377 Part 9 Clause 2.2 AMD 17229 July 2007
		Methods of test for Soils for civil engineering purposes  Part 4: Compaction-related tests.  Determination of the California Bearing Ratio (CBR)	BS 1377 Part 4 Test 7.2.3.2. AMD 13925: 2002

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Type of Task	Materials/Products	Task Name	Standard method
Physical / Mechanical	Soil	Methods of test for Soils for civil engineering purposes Part 4: Compaction-related tests Determination of dry density/moisture content relationship using using 4.5 kg rammer for soils with particles up to medium-gravel size	BS 1377 Part 4 Test 3.5 / 3.6,4.2 AMD 13925: 2002
		Methods of test for soils for civil engineering purposes Part 2: Classification tests Determination of the liquid limit- Cone penetrometer method	BS 1377 Part 2 Clause 4.3 AMD 9027-96
		Methods of test for soils for civil engineering purposes Part 2: Classification tests Determination of the plastic limit and plasticity index	BS 1377 Part 2 Clause 5 and 5.4 AMD9027-96
	Concrete	Testing concrete Part 116: Method for determination of compressive strength of concrete cubes	BS 1881 Part 116 AMD 6097-89 & AMD 6720-91

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Type of Task	Materials/Products	Task Name	Standard method
Physical / Mechanical	Concrete	Testing concrete; testing of hardened concrete (specimens prepared in mould)	DIN 1048 Part 5
		Testing concrete Part 122: Method for determination of water absorption	BS 1881 Part 122
		Testing hardened concrete Part 8: Depth of penetration of water under pressure	BS EN 12390 Part 8
		Testing concrete Part 208: Recommendations for the determination of the initial surface absorption of concrete	BS 1881 Part 208
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	AASHTO T277
		Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C1202

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