SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY ME LIMITED ABU DHABI
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CONSTRUCTION MATERIALS

Valid To: February 28, 2021 Certificate Number: 5669.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on construction materials:

Test:	**Test Method(s):**
Aggregates:	
Particle density and water absorption for aggregate 10mm nominal size and smaller	BS 812-2
Particle density and water absorption for aggregate all larger than 10mm	BS 812-2
Particle density and water absorption for aggregate between 40mm and 5mm	BS 812-2
Sampling coarse, fine, and all-in aggregates - from heaps - from a lorry-load - from laid material	BS 812-102[1]
Particle size distribution - washing and sieving -dry sieving	BS 812-103.1
Flakiness index	BS 812-105.1
Elongation index	BS 812-105.2
Moisture content - oven dry method	BS 812-109
Aggregate crushing value - particle size 10mm and greater *(Forces from 30 to 3000kN)*	BS 812-110

Test:	**Test Method(s):**
Aggregates (continued)	
Ten per cent fines value - dry - particle size 10mm and greater *(Forces from 30 to 3000kN)*	BS 812-111
Aggregate impact value - dry	BS 812-112
Acid soluble chloride salt content	BS 812-117 Appendix C
Total sulphate content by acid extraction	BS 812-118
Materials finer than 75µm (No 200) in mineral aggregates by washing	ASTM C117
Specific gravity and absorption of coarse aggregates	ASTM C127
Specific gravity and absorption of fine aggregates	ASTM C128
Resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131/C131M
Sieve analysis of fine and coarse aggregates	ASTM C136/C136M
Clay lumps and friable particles in aggregates	ASTM C142/C142M
Resistance to degradation of large-size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535
Total evaporable moisture content by drying	ASTM C566
Bituminous:	
Bulk specific gravity and density of compacted bituminous mixtures	ASTM D2726/D2726M
Thickness of compacted bituminous paving mixture specimens	ASTM D3549/D3549M
Mechanical size analysis of extracted aggregates	ASTM D5444
Asphalt content of hot-mix asphalt by ignition method	ASTM D6307

Test:	**Test Method(s):**
Bituminous (continued):	
Preparation of bituminous specimens using Marshall apparatus	ASTM D6926
Marshall stability and flow *(Forces from 2.5 to 50 kN)*	ASTM D6927
Concrete:	
Sampling fresh concrete on site	BS 1881-101[1]; ASTM C172/C172M[1]; BS EN 12350-1[1]
Sampling from initial discharge (slump test)	BS 1881-102[1]
Slump	BS 1881-102[1]; ASTM C143/C143M[1]; BS EN 12350-2[1]
Density	BS 1881-114 (Withdrawn)[2]
Depth of penetration of water under pressure	BS EN 12390-8
Compressive strength of cubes - including curing *(Forces from 30 to 3000 kN)*	BS 1881-116, BS 1881-111
Water absorption	BS 1881-122
Location of reinforcement	BS 1881-204[1]
Shape and dimension of specimens	BS EN 12390-1
Compressive strength of cubes - including curing *(Forces from 30 to 3000 kN)*	BS EN 12390-2 BS EN 12390-3
Density	BS EN 12390-7
Compressive strength of cores *(Forces from 60 to 3000kN)*	BS EN 12504-1
Cored Specimens - taking	BS EN 12504-1[1]
Sampling of concrete by dust drilling	EX-M-OP-CMT-AUH-MD001[1]
Temperature	ASTM C1064/C1064M[1]; BS 5328-4[1]
Rapid chloride permeability	ASTM C1202

Test:	**Test Method(s):**
Concrete (continued):	
Absorption of water by immersion	RILEM CPC 11.1
Water permeability	DIN 1048-5
Acid soluble chloride salt content	BS1881-124: Clause 12.1
Total sulphate content by acid extraction	BS1881-124: Clause 12.2
Soils	
Moisture content - oven drying method	BS 1377-2
Particle size distribution - wet sieving	BS 1377-2
Particle size distribution - dry sieving	BS 1377-2
Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4
CBR (California Bearing Ratio) of laboratory-compacted soils *(Forces from 2 to 40kN)*	BS 1377-4 ASTM D1883
In-situ density – sand replacement method (large pouring cylinder)	BS 1377-9[1]
Density and unit weight of soil in place by the sand-cone method	ASTM D1556/D1556M[1]
Laboratory compaction characteristics of soil using modified effort	ASTM D1557
Water (moisture) content	ASTM D2216
Acid soluble chloride salt content	BS 1377-3
Total sulphate content by acid extraction	BS 1377-3

[1] *A2LA R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests.

[2] This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

Accredited Laboratory

A2LA has accredited

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for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 28th day of October 28, 2019

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.02
Valid to February 28, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.