



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY ME LIMITED LLC²

Building No. 2507

Way No. 6033, Block No. 260

Muscat, Oman

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Email: info.oman@element.com

CONSTRUCTION MATERIALS

Valid To: February 28, 2023

Certificate Number: 5669.05

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above as well as the satellite location listed below to perform the following tests on construction materials:

<u>Test:</u>	<u>Test Method(s):</u>
<u>Aggregates:</u>	
Particle Size Distribution - washing and sieving	BS 812-103.1
Particle Size Distribution - dry sieving	BS 812-103.1
Flakiness Index	BS 812-105.1; BS EN 933-3
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
Aggregate Impact Value - dry	BS 812-112
Particle Size Distribution - sieving method	BS EN 933-1
Shape Index	BS EN 933-4
Resistance to Fragmentation by the Los Angeles Test Method	BS EN 1097-2
Loose Bulk Density and Voids	BS EN 1097-3
Water Content	BS EN 1097-5
Particle Density and Water Absorption using Pyknometer Method for Aggregates Particles between 4mm and 31.5mm	BS EN 1097-6

<u>Test:</u>	<u>Test Method(s):</u>
Particle density and Water Absorption using Pyknometer Method for Aggregates Particles between 0.063mm and 4mm	BS EN 1097-6
Clay Lumps and Friable Particles in Aggregates	ASTM C142/C142M
<u>Concrete – Hardened:</u>	
Density	BS 1881-114; BS EN 12390-7
Compressive Strength of Cubes – including curing	BS 1881-116; BS 1881-111; BS EN 12390-2; BS EN 12390-3
Shape and Dimension of Specimens	BS EN 12390-1
Compressive Strength of Cores	BS EN 12504-1
<u>Soils for Civil Engineering Purposes:</u>	
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	BS 1377-4
Swelling of Soaked CBR Specimen	BS 1377-4

ELEMENT MATERIALS TECHNOLOGY ME LIMITED LLC²
Plot 23, Road 2, Sohar Industrial Estate
Sohar, Oman

<u>Test:</u>	<u>Test Method(s):</u>
<u>Aggregates:</u>	
Particle Size Distribution - washing and sieving	BS 812-103.1
Particle Size Distribution - dry sieving	BS 812-103.1
Flakiness Index	BS 812-105.1; BS EN 933-1
Elongation Index	BS 812-105.2

<u>Test:</u>	<u>Test Method(s):</u>
Moisture content - oven dry method	BS 812-109
Methods of Reducing Laboratory Samples; - using a riffle box; - reduction by quartering; (to a test portion of a specified mass within a small tolerance)	BS EN 932-2
Particle Size Distribution - sieving method	BS EN 933-1
Shell Content	BS EN 933-7
Sand Equivalent Value	BS EN 933-8
Resistance to Fragmentation by the Los Angeles Test Method	BS EN 1097-2
Particle Density and Water Absorption using Wire Basket Method for Aggregates Particles between 31.5mm and 63mm	BS EN 1097-6
Particle Density and Water Absorption using Pyknometer Method for Aggregates Particles between 4mm and 31.5mm	BS EN 1097-6
Particle Density and Water Absorption using Pyknometer Method for Aggregates Particles between 0.063mm and 4mm	BS EN 1097-6
Magnesium Sulphate Test; Including Annex B size fractions; 20mm - 14mm; 10mm-6.3mm	BS EN 1367-2
Organic Impurities	ASTM C40/C40M
Soundness of Aggregate by use of Magnesium Sulfate	ASTM C88/C88M
Materials Finer than 75µm Sieve by Washing	ASTM C117
Lightweight Particles	ASTM C123/C123M
Specific Gravity and Absorption of Coarse Aggregate	ASTM C127
Specific Gravity and Absorption of Fine Aggregate	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 Aggregate	ASTM C136/C136M
Clay Lumps and Friable Particles in Aggregates	ASTM C142/C142M
Reducing Samples of Aggregate to Test Size	ASTM C702/C702M
Sand Equivalent Value	ASTM D2419
Flat and Elongated Particles	ASTM D4791
Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821
Un-compacted Void Content	AASHTO T304

<u>Test:</u>	<u>Test Method(s):</u>
<u>Concrete – Hardened:</u>	
Density	BS 1881-114
Compressive Strength of Cubes – including curing	BS 1881-116; BS 1881-111
<u>Soils for Civil Engineering Purposes:</u>	
Density and Unit Weight of Soil in Place by the Sand-cone Method ¹	ASTM D1556/D1556M

¹ This laboratory performs field testing activities for these tests.

² This accreditation covers testing performed at all laboratory locations listed on this scope of accreditation.

WITHDRAWN



Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY ME LIMITED LLC

Muscat, Oman

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 22nd day of February 2021.

A blue ink signature of the Vice President, Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.05
Valid to February 28, 2023

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