



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT SAUDI ARABIA COMPANY LIMITED
Quissm Street / 133 Road
II Industrial City
Dammam, Kingdom of Saudi Arabia
Hakim Benabdallah Phone: +966 13812 7750
Email: info.saudiarabia@element.com

CONSTRUCTION MATERIALS

Valid To: February 28, 2021

Certificate Number: 5669.11

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 one satellite location listed below to perform the following tests on construction materials:

Test(s):	Test Method(s):
<u>Aggregates</u>	
Soundness	ASTM C88/C88M; BS EN 1367-2
Reducing Field Testing to Sample Size	ASTM C702/C702M
Flakiness Index	BS 812-105.1; BS EN 933-3
Elongation	BS 812-105.2
Ten Per Cent Fines Value – Dry – Particle Size 10mm and Greater (Forces from 30 to 3000kN)	BS 812-111
Materials Finer Than 75 µm (No. 200) in Mineral Aggregates by Washing	ASTM C117
Percentage of Shell in Coarse Aggregate	BS EN 933-7
Specific Gravity and Absorption of Coarse Aggregates	ASTN C127
Specific Gravity and Absorption of Fine Aggregates	ASTM C128
Resistance to Degradation of Small-Size Coarse Aggregate by Absorption 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

Test(s):	Test Method(s):
<u>Aggregates – cont'd</u>	
Total Evaporable Moisture Content by Drying	ASTM 566
Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535
Resistance of Fragmentation by Impact in the Los Angeles Machine	BS EN 1097-2
<u>Armourstone</u>	
Average Mass Density and Absorption	BS EN 13383-2
<u>Natural Stone</u>	
Compressive Strength	BS EN 1926
<u>Bitumen</u>	
Bitumen Penetration	ASTM D5/D5M
Softening Point (Ring and Ball Method)	ASTM D36/D36M
<u>Bituminous Materials</u>	
Marshall Stability and Flow	ASTM D1559
Maximum Specific Gravity of Paving Mixtures	ASTM D2041/D2041M
Quantitative Extraction of Bitumen from Bituminous Mixtures	ASTM D2172/D2172M
Bulk Specific Gravity of Compacted Bituminous Mixtures	ASTM D2726/D2726M
Thickness or Height of Compacted Bituminous Paving Mixture Specimens	ASTM D3549/3549M
Mechanical Size Analysis of Extracted Aggregates	ASTM D5444
Asphalt Content of Hot-Mix Asphalt by Ignition Method	ASTM D6307
Preparation of Specimens Using the Marshall Apparatus	ASTM D6926
Marshall Stability and Flow	ASTM D6927
<u>Concrete - Hardened</u>	
Density	BS 1881-114
Compressive Strength of Cubes – Including Curing	BS 1881-116; BS 1881-111
Water Absorption	BS 1881-122

Test(s):	Test Method(s):
<u>Concrete-Hardened – cont'd</u>	
Depth of Penetration of Water Under Pressure	BS EN 12390-8
Compressive Strength of Cylindrical Specimens – Including Curing	ASTM C39/C39M
Rapid Chloride Permeability	ASTM C1202
Water Permeability	DIN 1048
Rebound Hammer Test	ASTM C805/C805M
Obtaining Drilled Cores	ASTM C42/C42M
Cement Mortar Compressive Strength	ASTM C109/C109M
Capping Concrete Cylinder Specimens	ASTM C617/C617M
Curing Concrete	ASTM 511
<u>Concrete - Fresh</u>	
Slump	ASTM C143/C143M
Air Content	ASTM C231/C231M
Setting Time of Cement	ASTM C807
Unit Weight & Yield of Concrete	ASTM C138/C138M
Making Concrete Test Specimens in the Field	ASTM C31/C31M
Preparation of Trial Concrete Mixes	ASTM C192/C192M
Temperature	ASTM C1064/C1064M
Particle Size Analysis	ASTM D422
Standard Proctor Tests	ASTM D698
Specific Gravity of Soils	ASTM 854
Amount of Material Finer than 75µm (#200 sieve) in soils by washing	ASTM D1140
Laboratory Compaction Characteristics of Soil Using Modified Effort	ASTM D1557
CBR (California Bearing Ration) of Laboratory – Compacted Soils (Forces from 2 to 40 kN)	ASTM D1883
Water (Moisture) Content	ASTM D2216
Sand Equivalent of Soils	ASTM D2419
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D4253

Test(s):	Test Method(s):
<u>Soils for Civil Engineering Purposes</u>	
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4254
LL, PL, PI	ASTM D4318
In – Situ Density Complex Impedance Method	ASTM D7698 ²

1st Industrial City
Al Mahjar District
Jeddah 22424, 7500
Saudi Arabia

Test(s):	Test Method(s):
<u>Aggregates</u>	
Reducing Field Testing to Sample Size	ASTM C702/C702M
Flakiness Index	BS 812-105.1; BS EN 933-3
Elongation	BS 812-105.2
Ten Per Cent Fines Value – Dry – Particle Size 10mm and Greater (Forces from 30 to 3000kN)	BS 812-111
Specific Gravity and Absorption of Coarse Aggregates	ASTN C127
Specific Gravity and Absorption of Fine Aggregates	ASTM C128
Resistance to Degradation of Small-Size Coarse Aggregate by Absorption 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
Total Evaporable Moisture Content by Drying	ASTM 566
<u>Concrete – Hardened</u>	
Compressive Strength of Cylindrical Specimens – Including Curing	ASTM C39/C39M
Rebound Hammer Test	ASTM C805/C805M
Curing Concrete	ASTM 511
<u>Concrete - Fresh</u>	
Slump	ASTM C143/C143M
Air Content	ASTM C231/C231M



Test(s):	Test Method(s):
<u>Concrete – Fresh – cont'd</u>	
Unit Weight & Yield of Concrete	ASTM C138/C138M
Making Concrete Test Specimens in the Field	ASTM C31/C31M
Preparation of Trial Concrete Mixes	ASTM C192/C192M
Temperature	ASTM C1064/C1064M
Particle Size Analysis	ASTM D422
Standard Proctor Tests	ASTM D698
Specific Gravity of Soils	ASTM 854
Amount of Material Finer than 75µm (#200 sieve) in Soils by Washing	ASTM D1140
Laboratory Compaction Characteristics of Soil Using Modified Effort	ASTM D1557
CBR (California Bearing Ration) of Laboratory – Compacted Soils (Forces from 2 to 40 kN)	ASTM D1883
Water (Moisture) Content	ASTM D2216
<u>Soils for Civil Engineering Purposes</u>	
LL, PL, PI	ASTM D4318
Density and Unit Weight of Soil in Place by the Sand – Cone Method	ASTM D1556/D1556M ²
In – Situ Density of Soil Using a Nuclear Density Gauge	ASTM D6938 ²

¹ This accreditation covers testing/calibrations performed at all laboratory locations listed in this scope of accreditation

² This laboratory meets A2LA R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories for these tests.





Accredited Laboratory

A2LA has accredited

ELEMENT SAUDI ARABIA COMPANY LIMITED

Dammam, Saudi Arabia

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 4th day of November 2019

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.11
Valid to February 28, 2021

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