SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017[1]

ELEMENT SAUDI ARABIA COMPANY LIMITED
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CONSTRUCTION MATERIALS

Valid To: February 28, 2027 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:

Test(s):	Test Method(s):
Aggregates	
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88 / C88M
Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117
Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	ASTM C127*(Withdrawn)*
Relative Density (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 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 Angles Machine	ASTM C535
Total Evaporable Moisture Content of Aggregate by Drying	ASTM C566
Reducing Samples of Aggregate to Testing Size	ASTM C702/C702M
Standard Practice for Sampling Aggregates	ASTM D75 / D75M[2]
Methods for Determination of Particle Shape-Flakiness index	BS 812-105.1
Methods for Determination of Particle Shape-Elongation index of coarse aggregate	BS 812-105.2
Methods for Determination of Ten Percent Fines Value (TFV)	BS 812-111

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Test(s):	Test Method(s):
Methods For Determination of Aggregate Impact Value (AIV)	BS 812-112
Determination Of Particle Shape- Flakiness Index	BS EN 933-3
Determination Of Shell Content- Percentage Of Shells In Coarse Aggregates	BS EN 933-7
Determination Of Resistance to Fragmentation by The Los Angeles Test Method	BS EN 1097-2
Tests For Thermal and Weathering Properties Of Aggregates – Magnesium Sulfate Test	BS EN 1367-2
Armourstone	
Determination Of Particle Density and Water Absorption	BS EN 13383-2
Natural Stone	
Determination Of Uniaxial Compressive Strength	BS EN 1926
Bituminous Materials	
Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures	ASTM D2041/D2041M
Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	ASTM D2172/D2172M
Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	ASTM D2726/D2726M
Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D3549/3549M
Mechanical Size Analysis of Extracted Aggregate	ASTM D5444
Preparation of Asphalt Mixture Specimens Using Marshall Apparatus	ASTM D6926
Marshall Stability and Flow of Asphalt Mixtures	ASTM D6927
Concrete - Hardened	
Compressive Strength of Cylindrical Concrete Specimens	ASTM C39/C39M
Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	ASTM C42/C42M[2]
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78 / C78M
Time of Setting of Concrete Mixtures by Penetration Resistance	ASTM C403/C403M
Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes	ASTM C511*(Withdrawn)*
Capping Cylindrical Concrete Specimens	ASTM C617/C617M
Rebound Number of Hardened Concrete	ASTM C805/C805M

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Test(s):	Test Method(s):
Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C1202
Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens	ASTM C1231 / C1231M
Method Of Normal Curing of Test Specimens (20˚C Method)	BS 1881-111
Determination Of Density of Hardened Concrete	BS 1881-114
Method For Determination of Compressive Strength of Concrete Cubes	BS 1881-116
Method Of Determination of Water Absorption	BS 1881-122
Depth Of Penetration of Water Under Pressure	BS EN 12390-8
Water Permeability of Hardened Concrete	DIN 1048
Chloride Migration Coefficient from Non-Steady-State Migration Experiments	NT Build 492
Ultrasonic Pulse Velocity Through Concrete	ASTM C597; BS EN 12504-4
Half-Cell Potential Measurement	ASTM C876
Pull Out Test	BS 1881-207, BS EN 12504-3
Accelerated Chloride Penetration Test	NT Build 443
Concrete - Fresh	
Making and Curing Concrete Test Specimens in the Field	ASTM C31/C31M[2]
Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	ASTM C138/C138M[2]
Slump of Hydraulic-Cement Concrete	ASTM C143/C143M[2]
Length Change of Hardened Hydraulic-Cement Mortar and Concrete	ASTM C157/C157M
Sampling Freshly Mixed Concrete	ASTM C172/172M[2]
Making and Curing Concrete Test Specimens in the Laboratory	ASTM C192/C192M
Air Content of Freshly Mixed Concrete by the Pressure Method	ASTM C231/C231M[2]
Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C1064/C1064M[2]
Monitoring of Heat of Hydration of Concrete (Temperature Monitoring)	EL-M-OP-CMT-AKB-MD042[2]
Paint and Coatings	
Dry Film Thickness	ASTM D1186, ASTM D6012
Pull Off Test	ASTM D4541, ASTM D7234
Mortar / Grout	
Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens)	ASTM C109/C109M (Compression Only)

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Test(s):	Test Method(s):
Soil	
Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	AASHTO T180
Determining In-Place Density and Moisture Content of Soil and Soil-Aggregate Using Complex Impedance Methodology	AASHTO T399[2]
Particle Size Analysis of Soils	ASTM D422*(Withdrawn)*
Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3))	ASTM D698
Specific Gravity of Soil Solids by Water Pycnometer	ASTM D854
Determining the Amount of Material Finer than 75-µm (No. 200) Sieve in Soils by Washing	ASTM D1140
Repetitive Static Plate Load Tests of Soils and Flexible Pavement Components, for Use in Evaluation and Design of Airport and Highway Pavements	ASTM D1195/1195M[2]
Density and Unit Weight of Soil in Place by Sand-Cone Method	ASTM D1556/D1556M[2]
Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3))	ASTM D1557
California Bearing Ratio (CBR) of Laboratory-Compacted Soils	ASTM D1883
Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419
Classification of Soils for Engineering Purposes (Unified Soil Classification System)	ASTM D2487
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D4253
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4254
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318
Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	ASTM D6913/6913M
In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	ASTM D6938[2]
Plate Load Test	BS 1377-9[2]; ASTM D1196[2]

[1] This accreditation covers testing performed at the main laboratory, as well as the satellite laboratories listed below.

[2] This laboratory performs field testing activities for these tests.

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Batching Plant Area, NEOM Community [1], Sharma
Tabuk, Kingdom of Saudi Arabia

Test(s):	Test Method(s):
Aggregate	
Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	AASHTO T96
Bulk Density ("Unit Weight") and Voids in Aggregate	ASTM C29/C29M
Organic Impurities in Fine Aggregates for Concrete	ASTM C40/C40M
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/C88M
Materials Finer than 75-um (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117
Lightweight Particles in Aggregate	ASTM C 123/C123M
Relative Density (Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127 *(Withdrawn)*
Relative Density (Specific Gravity), and Absorption of Fine Aggregate	ASTM C128
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 of Aggregate by Drying	ASTM C566
Reducing Samples of Aggregate to Testing Size	ASTM C702/C702M
Standard Practice for Sampling Aggregates	ASTM D75 / D75M[2]
Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791
Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821
Methods for determination of particle shape-Flakiness index	BS 812-105.1
Methods for determination of particle shape-Elongation index of coarse aggregate	BS 812-105.2
Aggregate Crushing Value (ACV)	BS 812-110
Methods For Determination of Ten Percent Fines Value (TFV)	BS 812-111
Determination Of Particle Shape- Flakiness Index	BSEN 933-3

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Test(s):	Test Method(s):
Determination of Particle Shape- Shape Index	BS EN 933-4
Determination of Shell Content – Percentage of Shells in Coarse Aggregates	BS EN 933-7
Drying Shrinkage	BS EN 1367-4
Particle Size Distribution	BS EN 933-1
Los Angeles Abrasion	BS EN 1097-2
Moisture Content	BS EN 1097-5
Relative Density & Water Absorption	BS EN 1097-6
Soundness	BS EN 1367-2
Bituminous Materials	
Sampling Asphalt Mixtures	ASTM D979/D979M
Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures	ASTM D2041/D2041M
Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	ASTM D2172/D2172M
Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	ASTM D2726/D2726M
Application Rate and Residual Application Rate of Bituminous Distributors	ASTM D2995
Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D3549/D3549M
Mechanical Size Analysis of Extracted Aggregate	ASTM D5444
Asphalt Content of Asphalt Mixture by Ignition Method	ASTM D6307
Preparation of Asphalt Mixture Specimens Using Marshall Apparatus	ASTM D6926
Marshall Stability and Flow of Asphalt Mixtures	ASTM D6927
Concrete - Hardened	
Compressive Strength of Cylindrical Concrete Specimens	ASTM C39/C39M
Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	ASTM C42/C42M
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78/C78M
Time of Setting of Concrete Mixtures by Penetration Resistance	ASTM C403/C403M
Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes	ASTM C511 *(Withdrawn)*
Standard Test Method for Pulse Velocity Through Concrete	ASTM C597
Capping Cylindrical Concrete Specimens	ASTM C617/C617M
Rebound Number of Hardened Concrete	ASTM C805/C805M
Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C1202

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Test(s):	Test Method(s):
Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens	ASTM C1231/C1231M
Method of normal curing of test specimens (20°C method)	BS 1881-111
Determination Of Density of Hardened Concrete	BS 1881-114
Method For Determination of Compressive Strength Of Concrete Cubes	BS 1881-116
Method Of Determination of Water Absorption	BS 1881-122 ASTM C1585
Initial Surface Absorption of Concrete (ISAT)	BS 1881- 208
Testing Hardened Concrete- Compressive Strength of Test Specimens	BS EN 12390-3
Density of Hardened Concrete	BS EN 12390-7
Water Permeability of Hardened Concrete	DIN 1048 BS EN 12390-8
Chloride Migration Coefficient from Non-Steady-State Migration Experiments	NT Build 492
Low Strain Pile Integrity Test	ASTM D5882
Porosity	ASTM C642
Tensile Strength	ASTM C496
Compressive strength of young sprayed concrete	BS EN 14488-2
Concrete - Fresh	
Making and Curing Concrete Test Specimens in the Field	ASTM C31/C31M
Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	ASTM C138/C138M
Slump of Hydraulic-Cement Concrete	ASTM C143/C143M
Sampling Freshly Mixed Concrete	ASTM C172/C172M
Air Content of Freshly Mixed Concrete by the Pressure Method	ASTM C231/C231M
Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C1064/C1064M
Testing Fresh Concrete-Sampling	BSEN 12350-1
Testing Fresh Concrete-Slump Test	BSEN 12350-2
Testing Fresh Concrete-Flow Table Test	BSEN 12350-5
Testing Fresh Concrete-Density	BSEN 12350-6
Air Content of Fresh Concrete	BSEN 12350-7
Monitoring of Heat of Hydration of Concrete (Temperature Monitoring)	EL-M-OP-CMT-NEOM-MD042[2]
Mortar Flow	ASTM C1437
Concrete Flow	ASTM C1611
Bleeding of Concrete	ASTM C232
Soils	
Sieve Analysis of Fine and Coarse Aggregates	AASHTO T27

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Test(s):	Test Method(s):
Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	AASHTO T 180
California Bearing Ratio (CBR)	AASHTO T193
Determining In-Place Density and Moisture Content of Soil and Soil-Aggregate Using Complex Impedance Methodology	AASHTO T 399[2]
Particles Size Analysis of Soil	ASTM D422 *(Withdrawn)*
Specific Gravity of Soil Solid by Water Pycnometer	ASTM D854
Laboratory Compaction Characteristics of Soil Using Standard Effort	ASTM D698
Determining the Amount of Material Finer than 75-µm (No. 200) Sieve in Soils by Washing	ASTM D1140
Repetitive Static Plate Tests of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements	ASTM D1195
Density and Unit Weight of Soil in Place by the Sand – Cone Method	ASTM D1556/D1556M[2]
Laboratory Compaction Characteristics of Soil Using Modified Effort	ASTM D1557
CBR (California Bearing Ratio) of Laboratory-Compacted Soils	ASTM D1883
Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318
Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	ASTM D6913/D6913M
In-Place Density and Water Content of Soil and Soil Aggregate by Nuclear Methods (Shallow Depth)	ASTM D6938
Determination of liquid limit – Cone penetrometer, Determination of plastic limit and plasticity index	BS 1377-2
Plate Load Test	ASTM D1196[2]
Classification of Soils for Engineering Purposes (Unified Soil Classification System)	ASTM D2487, ASTM D3282
Natural Stone	
Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543

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Test(s):	Test Method(s):
Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012
Grout	
Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)	ASTM C109 (Compression Only)
Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)	ASTM C939/C939M
Paint And Coatings	
Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals	ASTM D1186[2]
Pull Off Test	ASTM D 454, ASTM D 7234
Dry Film Thickness	ASTM D6012

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[2] This laboratory performs field testing activities for these tests.

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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 19th day of March 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.11
Valid to February 28, 2027

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

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