



INTERNATIONAL  
ACCREDITATION  
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# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## ADVANCED CONSTRUCTION TECHNOLOGY SERVICES-ACTS

GEORGES ASSY STREET, KHALIFEH BUILDING  
BEIRUT 5918, LEBANON

**Testing Laboratory TL-557**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 7, 2025



*International Accreditation Service*  
Issued under the authority of IAS management

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## ADVANCED CONSTRUCTION TECHNOLOGY SERVICES-ACTS

[www.acts-int.com](http://www.acts-int.com)

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*Accredited to ISO/IEC 17025:2017*

*Effective Date February 7, 2025*

Conformity Specifications	
ASTM D3666	Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials
ASTM D3740	Standard Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
ASTM A880-95	Standard Practice for Criteria for Use in Evaluation of Testing Laboratories and Organizations for Examination and Inspection of Steel, Stainless Steel, and Related Alloys (Withdrawn 2004)
Admixture	
ACTSQA-SOP-003	Determination of pH
ASTM C494	Standard Specification for Chemical Admixtures for Concrete: Solid Content and Specific Gravity of Admixture (Clauses 18.2 and 18.4)
Aggregate	
ASTM C40	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete
ASTM C88	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate
ASTM C117	Materials Finer than 75µm Sieve in Aggregates by Washing
ASTM C123	Standard Test Method for Lightweight Particles in Aggregate
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C131	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
ASTM C142	Clay Lumps and Friable Particles in Aggregates
ASTM C1260	Standard Test Method for Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)
ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate

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BS EN 1744-1	Tests for Chemical Properties of Aggregates. Chemical analysis: Acid Soluble Sulfate in Aggregate (Clause 12)
BS EN 1744-5	Tests for Chemical Properties of Aggregates. Chemical analysis: Acid Soluble Chloride in Aggregate
<b>Cement and Grout</b>	
ASTM C188	Standard Test Method for Density of Hydraulic Cement
BS EN 196-1	Determination of Strength
BS EN 196-3	Consistency and Setting Time of Hydraulic Cement
<b>Concrete</b>	
ASTM C31	Making and Curing Concrete Test Specimens in the Field
ASTM C39	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens (100x200mm Cylinders Excluded)
ASTM C42	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C78	Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C138	Density of Freshly Mixed Concrete
ASTM C143	Slump of Hydraulic Cement Concrete
ASTM C172	Sampling Freshly Mixed Concrete
ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C403	Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance
ASTM C1064	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation
ASTM C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration, RCP
ASTM C1567	Standard Test Method for Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)
ASTM E329	Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection (Sections 8 through 13)
BS 1881-122	Method for determination of water absorption
BS 1881-124	Methods for Analysis of Hardened Concrete: Acid Soluble Chloride in Concrete (Clause 12.1)
BS 1881-124	Methods for Analysis of Hardened Concrete: Acid Soluble Sulfate in Concrete (Clause 12.2)

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BS EN12390-8	Depth of penetration of water under pressure
<b>Dimension Stone/Tile</b>	
ASTM C97	Absorption and Bulk Specific Gravity of Dimension Stone
ASTM C99	Modulus of Rupture of Dimension Stone
ASTM C170	Compressive Strength of Dimension Stone
ASTM C880	Flexural Strength of Dimension Stone
<b>Soil</b>	
ASTM D698	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft <sup>3</sup> (600 kN-m/m <sup>3</sup> ))
ASTM D1195	Standard Test Method for Repetitive Static Plate Load Tests of Soils and Flexible Pavement Components, for Use in Evaluation and Design of Airport and Highway Pavements
ASTM D1556	Density and Unit Weight of Soil in Place by Sand-Cone Method
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D1883	Standard Test Method for CBR (California Bearing Ratio) of Laboratory-Compacted Soils
ASTM D2166	Standard Test Method for Unconfined Compressive Strength of Cohesive Soil
ASTM D2974	Standard Test Methods for Organic Matter of Soil
ASTM D3080	Direct Shear Tests of Soil Under Consolidated Drained Conditions
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4972	Standard Test Method for pH of Soils
ASTM D7928	Particle-Size Distribution (Gradation) of Fine-Grained Soils Using the Sedimentation (Hydrometer) Analysis
<b>Steel</b>	
ASTM A370-Annex 9	Tensile and Bending Test of Steel
ASTM E415	Chemical analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission spectrometry
<b>Water</b>	
AASHTO T26	Standard Test Method for Quality of Water to be used in Concrete (Clauses 3.1.1, 3.1.2.2, 3.2, 4.1 and 5.1):
ACTSQA-SOP-001	Alkalinity
ACTSQA-SOP-002	TDS
ACTSQA-SOP-003	pH
ASTM D512	Standard Test Methods for Chloride Ion in Water (Method B)
ASTM D516	Standard Test Method for Sulfate Ion in Water

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Rock	
ASTM D5731	Standard Test Method for Determination of the Point Load Strength Index of Rock
ASTM D7012	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures

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