

CERTIFICATE OF ACCREDITATION

This is to attest that

ADVANCED CONSTRUCTION TECHNOLOGY SERVICES

SALAH AD DIN AL AYYUBI STREET, AS SAFA DISTRICT RIYADH, 12851, SAUDI ARABIA

Testing Laboratory TL-663

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 21, 2024



President

Visit www.iasonline.org for current accreditation information.

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ADVANCED CONSTRUCTION TECHNOLOGY SERVICES

www.acts-int.com

Contact Name Wajahat Iqbal

Contact Phone +966-570981961

Accredited to ISO/IEC 17025:2017

Effective Date February 21, 2024

Aggregate		
ASTM C29/C29M	Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate	
ASTM C40	Standard test method for organic impurities in fine aggregates for concrete	
ASTM C88/C88M	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	
ASTM C117	Standard test method for materials finer than 75- μ m (no. 200) sieve in mineral aggregates by washing	
ASTM C127	Standard test method for density, relative density (specific gravity), and absorption of coarse aggregate	
ASTM C128	Standard test method for relative density, relative density (specific gravity), and absorption of fine aggregate	
ASTM C131	Standard test method for resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles machine	
ASTM C136/C136M	Standard test method for sieve analysis of fine and coarse aggregates	
ASTM C142	Standard test method for clay lumps and friable particles in aggregates	
ASTM C566	Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying	
ASTM D2419	Standard test method for sand equivalent value of soils and fine aggregate	
ASTM D5821	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	
BS 812-117	Testing aggregates- method for determination of water-soluble chloride salts (Appendix C)	
BS 812-118	Testing aggregates - methods for determination of sulfate content (clause 5.0)	
Asphalt		
AASHTO T324	Standard Method for Hamburg Wheel-Track Testing of Compacted Asphalt Mixtures.	
ASTM D5	Standard Test Method for Penetration of Bituminous Materials	
ASTM D36	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)	
ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	

TL-663 Advanced Construction Technology Services





International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ASTM D979	Standard Practice for Sampling Bituminous Paving Mixtures
ASTM D1188	Standard test method for bulk specific gravity and density of compacted bituminous mixtures using coated samples
ASTM D2041/D2041M	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures
ASTM D2172	Standard test methods for quantitative extraction of bitumen from bituminous paving mixtures
ASTM D2726/D2726	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures
ASTM D2872	Standard Test Method for Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin-Film Oven Test)
ASTM D2995	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors
ASTM D3549/D3549M	Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens
ASTM D4402/D4402M	Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer
ASTM D5361/D5361M	Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing
ASTM D6521	Standard Practice for Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV)
ASTM D6648	Standard Test Method for Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)
ASTM D6925	Standard Test Method for Preparation and Determination of the Relative Density of Asphalt Mix Specimens by Means of the Superpave Gyratory Compactor
ASTM D6926	Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus
ASTM D6927	Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures
ASTM D7175	Standard Test Method for Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer
ASTM D8292	Standard Test Method for Permanent Deformation Behavior and Rutting Resistance of Compacted Asphalt Mix in the Modified Loaded Wheel Tracker Test Utilizing Controlled Confining Pressure
BS EN 13399	Bitumen and bituminous binders. Determination of storage stability of modified bitumen
Cement	
ASTM C185	Test Method for Air Content of Hydraulic Cement Mortar
ASTM C188	Standard Test Method for Density of Hydraulic Cement





International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ASTM C191	Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle
ASTM C204	Standard Test Methods for Fineness of Hydraulic Cement by Air-Permeability Apparatus
ASTM C311/C311M	Standard Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete
ASTM C430	Standard Test Method for Fineness of Hydraulic Cement by the 45-µm (No. 325) Sieve
ASTM C1437	Standard Test Method for Flow of Hydraulic Cement Mortar
Chemical	
ASTM C289	Test method for potential alkali reactivity by aggregates (by chemical method)
Concrete	
ASTM C31/C31M	Standard practice for making and curing concrete test specimens in the field
ASTM C39	Standard test method for compressive strength of cylindrical concrete specimens
ASTM C42	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C94/C94M-22a	Standard Specification for Ready-Mixed Concrete- Concrete Uniformity Test (Annex A1. Concrete Uniformity Requirements)
ASTM C138	Standard test method for density (unit weight), yield, and air content (gravimetric) of concrete
ASTM C143	Standard test method for slump of hydraulic-cement concrete ASTM C187
ASTM C172	Standard Practice for Sampling Freshly Mixed Concrete
ASTM C231	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C511	Standard specification for mixing rooms, moist cabinets, moist rooms, and water storage tanks used in the testing of hydraulic cements and concretes
ASTM C617	Standard practice for capping cylindrical concrete specimens ASTM C805/C805M
ASTM C1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1202	Standard test method for electrical indication of concrete's ability to resist chloride ion penetration
ASTM C1610/C1610M	Standard Test Method for Static Segregation of Self-Consolidating Concrete Using Column Technique
ASTM C1611/C1611M	Standard Test Method for Slump Flow of Self-Consolidating Concrete
ASTM C1621/C1621M	Standard Test Method for Passing Ability of Self-Consolidating Concrete by J- Ring



International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ASTM C1758/C1758M	Standard Practice for Fabricating Test Specimens with Self-Consolidating Concrete.
BS 1881–122	Testing concrete- method for determination of water absorption
BS EN 12390-8	Testing hardened concrete Depth of penetration of water under pressure
Deep Foundation	
ASTM D1143/D1143M	Standard Test Methods for Deep Foundation Elements Under Static Axial Compressive Load
ASTM D3689	Standard Test Methods for Deep Foundations Under Static Axial Tensile Load
ASTM D3966	Standards Test Methods for Deep Foundations under Lateral Load
Fire Resistive Material	
ASTM E605	Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members
ASTM E736/E736M	Standard Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members
ASTM E2174	Standard Practice for On-Site Inspection of Fire Stops
ASTM E2393	Standard Practice for On-Site Inspection of Fire Resistive Joint Systems and Perimeter Fire Barriers
Geotechnical	
ASTM D5731	Standard Test Method for Determination of the Point Load Strength Index of Rock and Application to Rock Strength Classifications
Masonry	
ASTM C109	Compressive strength of hydraulic cement mortars (using 2-in. or [50-mm] cube specimens
ASTM C140	Standard test methods for sampling and testing concrete masonry units and related units
NDT	·
AAMA 501.2	Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems
ACI 228.2	Nondestructive Test Methods for Evaluation of Concrete in Structures: Cl. 2.2.4 - Spectral Analysis of Surface Waves (SASW)
ACI 228.2 / ASTM C597	Ultrasonic/Sonic Pulse Velocity and Velocity Tomography for quality and integrity of concrete
ACI 228.2 / ASTM C1383	Impact Echo for thickness and integrity of concrete
ACI 228.2 / ASTM C1740	Slab Impulse Response for structural evaluation and void detection
ACTS-SOP-004/18	Ground Penetrating Radar (GPR)
AWS D1.1 / ASTM E164	Ultrasonic inspection by flaw detectors
AWS D1.1 / ASTM E165	Liquid Penetration inspection by Aerosols
AWS D1.1 / ASTM E709	Magnetic particle inspection by yokes
	and the second s

TL-663 Advanced Construction Technology Services





International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

Soil	
ASTM D421	Standard Practice for Dry Preparation of Soil Samples for Particle-Size Analysis and Determination of Soil Constants Soils (withdrawn 2016)
ASTM D422	Standard Test Method for Particle-Size Analysis of Soils (withdrawn 2016)
ASTM D854	Standard test method for specific gravity of soil solids by water pycnometer
ASTM D1140	Standard Test Methods for Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing
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 / D1556M	Standard test method for density and unit weight of soil in place by sand-cone method
ASTM D1557	Standard test methods for laboratory compaction characteristics of soil using modified effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3)
ASTM D1883	Standard Test Method for California Bearing Ratio (CBR) of Laboratory- Compacted Soils
ASTM D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate
ASTM D4318	Standard test methods for liquid limit, plastic limit, and plasticity index of soils
ASTM D4972	Standard Test Methods for pH of Soils
ASTM D6938	Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
Steel	
ASTM A370	Standard test methods and definitions for mechanical testing of steel products (tensile tests, section 6-14 and annexes A1, A2, A3, A7 and A9, and bend test section 15 only)
ASTM A1061/A1061M	Standard Test Methods for Testing Multi-Wire Steel Prestressing Strand
ASTM D7234	Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers
ASTM E488	Standard Test Methods for Strength of Anchors in Concrete Elements
ASTM F606/F606M	 Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets Inclusions: Clause 4.2 (Proof Load Test for Internally Threaded Fasteners) For Externally Threaded Fasteners: Section 3, Proof Load 3.2.1, Method 1, Length Measurement 3.2.3, Method 2, Yield Strength 3.2.4, Axial Tension Testing of Full-Size Product 3.4.

Water





International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ASTM D512	Standard Method of Test for Chloride Ion in Water
ASTM D516	Standard Method of Test for sulfate ion in Water
ASTM D1293	Standard Method for PH of water

TL-663 Advanced Construction Technology Services



