



CERTIFICATE OF ACCREDITATION

This is to attest that

ADVANCED CONSTRUCTION TECHNOLOGY SERVICES

SALAH AD DIN AL AYYUBI STREET, AS SAFA DISTRICT
RIYADH, 12851, KINGDOM OF 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 December 26, 2020



A handwritten signature in black ink, reading 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

ADVANCED CONSTRUCTION TECHNOLOGY SERVICES

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Contact Phone +966-533854110

Accredited to ISO/IEC 17025:2017

Effective Date December 26, 2020

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 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	
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
ASTM D979	Standard Practice for Sampling Bituminous Paving Mixtures

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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
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
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

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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- μ m (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 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
BS 1881-122	Testing concrete- method for determination of water absorption
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

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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: CI. 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
Soil	
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/ft ³ (2,700 kN-m/m ³))
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

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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
Water	
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