



INTERNATIONAL  
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# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **ARAB COMPANY FOR LABORATORIES AND SOIL (ACES) JEDDAH BRANCH**

AHMAD IBN ABDULMUQRI STREET  
JEDDAH, 21382, SAUDI ARABIA

**Testing Laboratory TL-668**

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 August 19, 2024



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

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# SCOPE OF ACCREDITATION

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## ARAB COMPANY FOR LABORATORIES AND SOIL (ACES) JEDDAH BRANCH

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

**Contact Name** Tariq Diab

**Contact Phone** +966 126641422

*Accredited to ISO/IEC 17025:2017*

*Effective Date August 19, 2024*

| Conformity Specifications |   |
|---------------------------|---|
| ASTM C1077                | Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation (KSA equivalent for Section 6.1 and exclusion of ASTM C173)                |
| ASTM C1093                | Practice for Accreditation of Testing Agencies for Masonry  |
| ASTM D3666                | Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials  |
| ASTM D3740                | Practice for Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction   |
| ASTM E329                 | Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection (exclude sections 15, 16, 17, 18, & 19) (KSA equivalent for Section 6.2.2 and exclusion of Special Inspection) |
| ASTM E543                 | Specification for Agencies Performing Nondestructive Testing  |
| Concrete                  |   |
| ACI 207.2                 | Report on Thermal and Volume Change Effects on Cracking of Mass Concrete  |
| ACI 211.1                 | Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete  |
| ACI 211.2                 | Standard Practice for Selecting Proportions for Structural Lightweight Concrete   |
| ACI 211.4                 | Guide for Selecting Proportions for High-Strength Concrete  |
| ACI 212.3                 | Report on chemical admixtures for concrete  |
| ACI 214.1 R               | Guide to Evaluation of Strength Test Results of Concrete  |
| ACI 214.4 R               | Guide for obtaining cores and interpreting compressive strength results   |
| ACI 216.1                 | Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies   |
| ACI 228.1R                | In-Place Methods to Estimate Concrete Strength  |

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|                    |   |
|--------------------|---|
| ACI 228.2R         | Report on Nondestructive Test Methods for Evaluation of Concrete in Structures  |
| ACI 237r           | Self-Consolidating Concrete   |
| ACI 301            | Specifications for Structural Concrete (Section 8)  |
| ACI 318 Chapter 27 | Strength Evaluation of Existing Structures  |
| ACI 364.1          | guide for assessment of concrete structures before rehabilitation   |
| ACI 437            | Strength Evaluation of Existing Concrete Buildings  |
| ACI 562            | Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures                            |
| ASTM C31/C31M      | Standard Practice for Making and Curing Concrete Test Specimens in the Field  |
| ASTM C39/C39M      | Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens   |
| ASTM C42/C42M      | 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 C94           | Standard Specification for Ready-Mixed Concrete   |
| ASTM C133          | Standard Test Methods for Cold Crushing Strength and Modulus of Rupture of Refractories                                 |
| ASTM C134          | Standard Test Methods for Size, Dimensional Measurements, and Bulk Density of Refractory Brick and Insulating Firebrick |
| ASTM C138/C138M    | Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete                        |
| ASTM C143/C143M    | Standard Test Method for Slump of Hydraulic-Cement Concrete   |
| ASTM C172/C172M    | Standard Practice for Sampling Freshly Mixed Concrete   |
| ASTM C174/C174M    | Standard Test Method for Measuring Thickness of Concrete Elements Using Drilled Concrete Cores                          |
| ASTM C192          | Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory                                       |
| ASTM C231/C231M    | Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method                                   |
| ASTM C232          | Standard Test Method for Bleeding of Concrete   |
| ASTM C293          | Standard Test Method for Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)                    |

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|                    |   |
|--------------------|---|
| ASTM C403          | Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance   |
| ASTM C490          | Standard Practice for Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete  |
| ASTM C495          | Standard Specification for Blended Hydraulic Cements  |
| ASTM C511          | Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes, Section 7 only                  |
| ASTM C597          | Standard Test Method for Pulse Velocity Through Concrete  |
| ASTM C617/C617M    | Standard Practice for Capping Cylindrical Concrete Specimens  |
| ASTM C642          | Standard Test Method for Density, Absorption, and Voids in Hardened Concrete  |
| ASTM C805/C805M    | Standard Test Method for Rebound Number of Hardened Concrete  |
| ASTM C876          | Standard Test Method for Corrosion Potentials of Uncoated Reinforcing Steel in Concrete   |
| ASTM C900          | Standard Test Method for Pullout Strength of Hardened Concrete  |
| ASTM C1064/C1064M  | 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 C1231/C1231M  | Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens  |
| ASTM C1354         | Standard Test Method for Strength of Individual Stone Anchorages in Dimension Stone   |
| ASTM C1583         | Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method) |
| ASTM D1143/D1143M) | Standard Test Methods for Deep Foundations Under Static Axial Compressive Load  |
| ASTM D4541         | Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers  |
| ASTM D5882         | Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations  |
| BS 1881-122        | Testing concrete Method for determination of water absorption   |
| BS 1881-208        | Testing concrete Recommendations for the determination of the initial surface absorption of concrete  |

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|                            |   |
|----------------------------|---|
| BS EN 1338                 | Concrete paving blocks. Requirements and test methods   |
| BS EN 1339                 | Concrete paving flags. Requirements and test methods  |
| BS EN 12390-2              | Testing hardened concrete. Making and curing specimens for strength tests   |
| BS EN 12390-3              | Testing hardened concrete. Compressive strength of test specimens   |
| BS EN 12390-7              | Testing hardened concrete. Density of hardened concrete   |
| BS EN 12390-8              | Testing hardened concrete Depth of penetration of water under pressure  |
| DIN 1048-part 5            | Testing of Hardened Concrete - Clause 7.6 "Water Permeability"  |
| NT Build 492               | Concrete, mortar and cement-based repair materials: chloride migration coefficient from non-steady-state migration experiments  |
| <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 D1140                 | Standard Test Methods for Determining the Amount of Material Finer than 75- $\mu$ m (No. 200) Sieve in Soils by Washing   |
| ASTM D1196/D1196M-12(2016) | Standard Test Method for Nonrepetitive 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 <sup>3</sup> (2,700 kN-m/m <sup>3</sup> ))                  |
| 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 D2487                 | Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)   |
| ASTM D3080                 | Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions   |
| ASTM D3282                 | Standard Practice for Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes   |
| ASTM D4253                 | Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table  |

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|-------------------|---|
| ASTM D4254        | Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density                        |
| ASTM D4318        | Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils  |
| ASTM D4429        | Standard Test Method for CBR (California Bearing Ratio) of Soils in Place (Silty sand with gravel or rock only)                     |
| ASTM D4718/D4718M | Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles                           |
| ASTM D6913/D6913M | Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis                                      |
| ASTM D6938        | Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)          |
| <b>Aggregate</b>  |   |
| 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- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing                          |
| ASTM C127         | Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate                                     |
| ASTM C128         | Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate                                       |
| ASTM C131/C131M   | 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/C142M   | Standard Test Method for Clay Lumps and Friable Particles in Aggregates   |
| ASTM C535         | Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine |
| ASTM C702/C702M   | Standard Practice for Reducing Samples of Aggregate to Testing Size   |
| ASTM D75/D75M     | Standard Practice for Sampling Aggregates   |
| BS 812-105.2      | Testing aggregates. Methods for determination of particle shape. Elongation index of coarse aggregate                               |

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|                   |  |
|-------------------|--|
| BS EN 933-3       | Tests for geometrical properties of aggregates. Determination of particle shape. Flakiness index                               |
| BS EN 1097-2      | Tests for mechanical and physical properties of aggregates. Methods for the determination of resistance to fragmentation       |
| <b>Asphalt</b>    |  |
| ASTM D36/D36M     | Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)  |
| ASTM D113         | Standard Test Method for Ductility of Asphalt Materials  |
| ASTM D395         | Standard Test Methods for Rubber Property—Compression Set  |
| ASTM D624         | Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers                          |
| ASTM D751         | Standard Test Methods for Coated Fabrics   |
| ASTM D979/D979M   | Standard Practice for Sampling Bituminous Paving Mixtures  |
| ASTM D1876        | Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)  |
| ASTM D2041/D2041M | Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures                        |
| ASTM D2172/D2172M | Standard Test Methods for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures                                      |
| ASTM D2240        | Standard Test Method for Rubber Property—Durometer Hardness  |
| ASTM D2726/D2726M | Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures                        |
| ASTM D3203/D3203M | Standard Test Method for Percent Air Voids in Compacted Asphalt Mixtures   |
| ASTM D3549/D3549M | Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens  |
| ASTM D3666        | Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials                  |
| ASTM D4402/D4402M | Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer"            |
| ASTM D4867/D4867M | Standard Test Method for Effect of Moisture on Asphalt Concrete Paving Mixtures  |
| ASTM D5361/D5361M | Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing   |
| ASTM D5581        | Standard Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus (6 inch-Diameter Specimen) |

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|                                      |  |
|--------------------------------------|--|
| 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 D6925                           | Standard Test Method for Preparation and Determination of the Relative Density of Asphalt Mix Specimens by Means of the Superpave Gyratory Compactor |
| ASTM D6931                           | Standard Test Method for Indirect Tensile (IDT) Strength of Asphalt Mixtures   |
| <b>Highway Testing</b>               |  |
| ASTM D4694                           | Standard Test Method for "Deflections with a Falling Weight Type Impulse Load Device"  |
| ASTM D4695                           | Standard Guide for "General Pavement Deflection Measurements"  |
| ASTM D6432                           | Standard Guide for "Using the Surface Ground Penetrating Radar Method for Subsurface Investigation"  |
| ASTM E303                            | Standard Test Method for "Measuring the Surface Frictional Properties Using the British Pendulum Tester"   |
| ASTM E950/E950M                      | Standard Test Method for "Measuring the Longitudinal Profile of Traveled Surfaces"   |
| ASTM E1703/1703M                     | Standard test Method for "Measuring Rut-Depth of Pavement Surfaces Using a Straightedge"   |
| ASTM E1926                           | Standard Practice for "Computing International Roughness Index of Roads from Longitudinal Profile Measurements"                                      |
| ASTM E2340/E2340M                    | Standard Test Method for "Measuring the Skid Resistance of Pavements and Other Trafficked Surfaces Using a Continuous Reading, Fixed Slip Technique" |
| <b>Steel</b>                         |  |
| ASTM A370                            | Standard Test Methods and Definitions for Mechanical Testing of Steel Products - Tension (Section 6 to 14) & Bending (Section 15)                    |
| ASTM C497                            | Standard Test Methods for Concrete Pipe, Manhole Sections, or Tile   |
| <b>Non-Destructive Testing (NDT)</b> |  |
| ASTM D6132                           | Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage     |
| ASTM E164                            | Standard Practice for Contact Ultrasonic Testing of Weldments  |
| ASTM E376                            | Standard Practice for Measuring Coating Thickness by Magnetic-Field or Eddy Current (Electromagnetic) Testing Methods                                |
| ASTM E1417                           | Standard Practice for Liquid Penetrant Testing   |

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|   |   |
|---|---|
| ASTM E1444  | Standard Practice for Magnetic Particle Testing   |
| <b>Tiles</b>  |   |
| BS EN 13748-1   | Terrazzo tiles. Terrazzo tiles for internal use   |
| BS EN ISO 10545-2                                     | Ceramic tiles. Determination of dimensions and surface quality  |
| BS EN ISO 10545-4                                     | Ceramic tiles. Determination of modulus of rupture and breaking strength  |
| BS EN ISO 10545-5                                     | Ceramic tiles. Determination of impact resistance by measurement of coefficient of restitution                    |
| <b>Concrete Block</b>                                 |   |
| ASTM C140/C140M                                       | Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units                           |
| <b>Cement</b>   |   |
| ASTM C109/C109M                                       | Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens) |
| ASTM C110   | Standard Test Methods for Physical Testing of Quicklime, Hydrated Lime, and Limestone                             |
| ASTM C185   | Standard Test Method for Air Content of Hydraulic Cement Mortar   |
| ASTM C187   | Standard Test Method for Amount of Water Required for Normal Consistency of Hydraulic Cement Paste                |
| 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 C348   | Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars  |
| <b>Polymer/Plastic/Geotextile/Waterproof Membrane</b> |   |
| ASTM C165   | Standard Test Method for Measuring Compressive Properties of Thermal Insulations                                  |
| ASTM C272/C272M                                       | Standard Test Method for Water Absorption of Core Materials for Sandwich Constructions                            |
| ASTM C303   | Standard Test Method for Dimensions and Density of Preformed Block and Board-Type Thermal Insulation              |
| ASTM D256   | Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics                             |
| ASTM D297   | Standard Test Methods for Rubber Products—Chemical Analysis   |

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|-------------------|---|
| ASTM D412         | Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension  |
| ASTM D543         | Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents   |
| ASTM D570         | Standard Test Method for Water Absorption of Plastics   |
| ASTM D618         | Standard Practice for Conditioning Plastics for Testing   |
| ASTM D638         | Standard Test Method for Tensile Properties of Plastics   |
| ASTM D648         | Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position                    |
| ASTM D695         | Standard Test Method for Compressive Properties of Rigid Plastics   |
| ASTM D790         | Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials   |
| ASTM D792         | Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement                       |
| ASTM D882         | Standard Test Method for Tensile Properties of Thin Plastic Sheet   |
| ASTM D903         | Standard Test Method for Peel or Stripping Strength of Adhesive Bonds   |
| ASTM D1004        | Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheet  |
| ASTM D1204        | Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheet or Film at Elevated Temperature         |
| ASTM D1238        | Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer   |
| ASTM D1505        | Standard Test Method for Density of Plastics by the Density-Gradient Technique  |
| ASTM D1512        | Standard Test Methods for Carbon Black—pH Value   |
| ASTM D1603        | Standard Test Method for Carbon Black Content in Olefin Plastics  |
| ASTM D1621        | Standard Test Method for Compressive Properties of Rigid Cellular Plastics  |
| ASTM D1622/D1622M | Standard Test Method for Apparent Density of Rigid Cellular Plastics  |
| ASTM D1709        | Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method                                 |
| ASTM D1784        | Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds |

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|                   |   |
|-------------------|---|
| ASTM D2122        | Standard Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings  |
| ASTM D2126        | Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging   |
| ASTM D2412        | Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading                              |
| ASTM D2466        | Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40  |
| ASTM D2564        | Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems  |
| ASTM D2911/D2911M | Standard Specification for Dimensions and Tolerances for Plastic Bottles  |
| ASTM D3418        | Standard Test Method for Transition Temperatures and Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry    |
| ASTM D3567        | Standard Practice for Determining Dimensions of "Fiberglass" (Glass-Fiber-Reinforced Thermosetting Resin) Pipe and Fittings                       |
| ASTM D3776/D3776M | Standard Test Methods for Mass Per Unit Area (Weight) of Fabric   |
| ASTM D4073        | Standard Test Method for Tensile-Tear Strength of Bituminous Roofing Membranes  |
| ASTM D4491/D4491M | Standard Test Methods for Water Permeability of Geotextiles by Permittivity   |
| ASTM D4533/D4533M | Standard Test Method for Trapezoid Tearing Strength of Geotextiles  |
| ASTM D4595        | Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method   |
| ASTM D4632/D4632M | Standard Test Method for Grab Breaking Load and Elongation of Geotextiles   |
| ASTM D4716/D4716M | Standard Test Method for Determining the (In-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head |
| ASTM D4751        | Standard Test Methods for Determining Apparent Opening Size of a Geotextile   |
| ASTM D4787        | Standard Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete Substrates   |
| ASTM D4833/D4833M | Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products   |
| ASTM D5147/D5147M | Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Material   |
| ASTM D5162        | Standard Practice for Discontinuity (Holiday) Testing of Nonconductive Protective Coating on Metallic Substrates                                  |

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|-------------------|---|
| ASTM D5199        | Standard Test Method for Measuring the Nominal Thickness of Geosynthetics   |
| ASTM D5721        | Standard Practice for Air-Oven Aging of Polyolefin Geomembranes   |
| ASTM D5994/D5994M | Standard Test Method for Measuring Core Thickness of Textured Geomembranes  |
| ASTM D6365        | Standard Practice for Nondestructive Testing of Geomembrane Seams Using the Spark Test  |
| ASTM D6392        | Standard Test Method for Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-Fusion Methods  |
| ASTM D6693/D6693M | Standard Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes   |
| ASTM D6988        | Standard Guide for Determination of Thickness of Plastic Film Test Specimens  |
| ASTM E96/E96M     | Standard Test Methods for Water Vapor Transmission of Materials   |
| ASTM E154/E154M   | Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover   |
| ASTM E779         | Standard Test Method for Determining Air Leakage Rate by Fan Pressurization   |
| ASTM E783         | Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors  |
| ASTM E1105        | Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference |
| ASTM E1710        | Road paint reflection test  |
| ASTM G62-22       | Standard Test Methods for Holiday Detection in Pipeline Coatings  |
| BS EN 1849-1      | Flexible sheets for waterproofing. Determination of thickness and mass per unit area. Bitumen sheets for roof waterproofing   |
| BS EN 1849-2      | Flexible sheets for waterproofing. Determination of thickness and mass per unit area. Plastics and rubber sheets for roof waterproofing   |
| BS EN 12127       | Textiles. Fabrics. Determination of mass per unit area using small samples  |
| BS EN 12311-1     | Flexible sheets for waterproofing. Determination of tensile properties. Bitumen sheets for roof waterproofing   |
| BS EN 12317-1     | Flexible sheets for waterproofing. Bitumen sheets for roof waterproofing. Determination of shear resistance of joints   |
| BS EN 12317-2     | Flexible sheets for waterproofing. Determination of shear resistance of joints. Plastic and rubber sheets for roof waterproofing  |

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|   |   |
|---|---|
| BS EN ISO 11357-6   | Plastics. Differential scanning calorimetry (DSC). Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT) |
| ISO 2505  | Thermoplastics pipes — Longitudinal reversion — Test method and parameters  |
| ISO 2507-1  | Thermoplastics pipes and fittings — Vicat softening temperature — Part 1: General test method   |
| ISO 7686  | Plastics pipes and fittings — Determination of opacity  |
| ISO 9852  | Unplasticized poly(vinyl chloride) (PVC-U) pipes — Dichloromethane resistance at specified temperature (DCMT) — Test method                                     |
| ISO 9972  | Thermal performance of buildings — Determination of air permeability of buildings — Fan pressurization method   |
| ISO 12492   | Rubber, raw -- Determination of water content by Karl Fischer method  |
| NEMA TC2, 6&8   | Polyvinyl Chloride (PVC) Plastic Utilities Duct for Underground Installations (Testing Section)   |
| NEMA VE 1   | Metal Cable Tray Systems (Testing Section)  |
| UL 651  | Schedule 40 and 80 Rigid PVC Conduit and Fittings (Testing Section)   |
| <b>Oil</b>  |   |
| ASTM D92  | Standard Test Method for Flash and Fire Points by Cleveland Open Cup Test   |
| ASTM D95  | Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation   |
| <b>Chemical, Environmental, and Microbiological Testing</b> |   |
| APHA 2110   | Appearance  |
| APHA 2120 C   | Color (Spectrophotometric Method)   |
| APHA 2120 C   | Color, True and Apparent (Platinum-Cobalt Standard Method)  |
| APHA 2130 B   | Turbidity (Nephelometric Method)  |
| APHA 2150 B   | Standard methods for the examination of water and wastewater, 22nd edition, Determination of odor   |
| APHA 2160 B   | Standard methods for the examination of water and wastewater, 22nd edition, Determination of taste  |
| APHA 2320 B   | Total Alkalinity (Titration Method)   |
| APHA 2320 B   | M-Alkalinity (Titration Method)   |
| APHA 2320 B   | P-Alkalinity (Titration Method)   |

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|                |   |
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| APHA 2320 B    | Bicarbonate HCO <sub>3</sub> (Titration Method)   |
| APHA 2320 B    | Carbonate CO <sub>3</sub> (Titration Method)  |
| APHA 2320 B    | Hydroxide OH (Titration Method)   |
| APHA 2340 A    | Carbonate Hardness  |
| APHA 2340 A    | Non-carbonate Hardness  |
| APHA 2340 B    | Total Hardness (Hardness by Calculation)  |
| APHA 2340 C    | Standard methods for the examination of water and wastewater, 22nd edition, Determination of hardness   |
| APHA 2510      | Conductivity (Laboratory Method)  |
| APHA 2510 B    | Standard methods for the examination of water and wastewater, 22nd edition, Determination of conductivity                                     |
| APHA 2520 B    | Salinity (Electrical Conductivity Method)   |
| APHA 2520 B    | Standard methods for the examination of water and wastewater, 22nd edition, Determination of salinity   |
| APHA 2540 B    | Standard methods for the examination of water and wastewater, 22nd edition, Determination of total solids dried at 103-105°C                  |
| APHA 2540 C    | Standard methods for the examination of water and wastewater, 22nd edition, Determination of TDS  |
| APHA 2540 C    | Total Dissolved Solids Dried at 180°C   |
| APHA 2540 D    | Standard methods for the examination of water and wastewater, 22nd edition, Determination of total solids suspended solids dried at 103-105°C |
| APHA 2550      | Temperature (Laboratory and Field Methods)  |
| APHA 3500 B    | Hexavalent Chromium   |
| APHA 3500-Ca B | Standard methods for the examination of water and wastewater, 22nd edition, Determination of calcium  |
| APHA 3500-Ca B | Calcium Hardness (EDTA Titrimetric Method)  |
| APHA 3500-Mg B | Standard methods for the examination of water and wastewater, 22nd edition, Determination of magnesium  |
| APHA 3500-Mg B | Magnesium Hardness (Calculation Method)   |
| APHA 4500 B    | Nitrite NO <sub>2</sub> - (US EPA Diazotization Method)   |
| APHA 4500 C    | Ammonia (Salicylate Method)   |

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|                            |  |
|----------------------------|--|
| APHA 4500-Cl G & HACH 8021 | Free Chlorine (DPD Colorimetric Method)  |
| APHA 4500-Cl G & HACH 8167 | Total Chlorine (DPD Colorimetric Method)   |
| APHA 4500-CL G             | Standard methods for the examination of water and wastewater, 22nd edition, Determination of total residual chlorine |
| APHA 4500-CL G             | Standard methods for the examination of water and wastewater, 22nd edition, Determination of free residual chlorine  |
| APHA 4500 CN - B&E         | Cyanide, Colorimetric Method   |
| APHA 4500 CO2 C.           | Titrimetric Method for Free Carbon Dioxide   |
| APHA 4500-CO2 D            | Carbon Dioxide and Forms of Alkalinity by Calculation  |
| APHA 4500 D                | Fluoride F- (US EPA SPADNS Method)   |
| APHA 4500 D                | Phosphate PO43- , Reactive, Orthophosphate (Ascorbic Acid Method)  |
| APHA 4500 D                | Sulfide S2- (US EPA Methylene Blue Method)   |
| APHA 4500 H                | Standard methods for the examination of water and wastewater, 22nd edition, Determination of pH                      |
| APHA 4500 H+               | pH (Electrometric Method)  |
| APHA 4500 N <sub>org</sub> | Nitrogen (Organic) Macro-Kjeldahl Method   |
| APHA 4500 NH3 B&C          | Nitrogen (Ammonia) Preliminary Distillation and Titrimetric method   |
| APHA 4500-NO2- B           | Nitrite NO2- (Colorimetric Method)   |
| APHA 4500-O G              | Dissolved oxygen (Membrane Electrode Method)   |
| APHA 4500-S2- F            | Sulfide S2- (Iodometric Method)  |
| APHA 5120 B                | Biochemical Oxygen demand BOD (5-Day BOD Test)   |
| APHA 5220 D                | Colorimetric Method)   |
| APHA 5220 D                | Chemical Oxygen Demand COD (Closed Reflux,   |
| APHA 5520 B                | Oil & Grease (Partition-Gravimetric Method)  |
| APHA 5520 F                | Petroleum Hydrocarbons   |
| APHA 5530 C                | Total phenols Chloroform Extraction Method   |
| APHA 9215 C                | Total Bacteria Count   |
| APHA 9222B                 | Total Coliform   |

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|                        |  |
|------------------------|--|
| APHA 9222 D            | Fecal Coliform   |
| APHA 9222 H            | E. Coli  |
| APHA 9230 C            | Fecal Streptococci   |
| APHA 9230 C            | Enterococci  |
| APHA 9610 D            | Yeast & Mould  |
| APHA 10750             | Nematodes  |
| ASTM C494              | Standard specification for chemical admixtures for concrete, Cl. 18.0 – Determination of dry material content                                  |
| ASTM D512              | Standard test methods for chloride ion in water  |
| ASTM D512              | Chloride Cl (Argentometric Method)   |
| ASTM D516              | Standard test method for sulfate ion in water  |
| ASTM D516 & HACH 10248 | Sulfate SO42- (Turbidimetric Method)   |
| ASTM D1757             | Sulfate sulfur in ash from coal and coke   |
| ASTM D3042             | Standard test method for insoluble residue in carbonate aggregates   |
| ASTM E572              | Standard test method for analysis of stainless and alloy steels by wavelength dispersive X-ray Fluorescence spectrometry                       |
| ASTM E1085             | Standard test method for analysis of low-alloy steels by wavelength dispersive X-ray fluorescence spectrometry                                 |
| BS 1744-5:2006         | Tests for chemical properties of aggregates – Determination of acid soluble chloride salts   |
| BS 1881-124:2015       | Testing concrete. Methods for analysis of hardened concrete, Cl. 6.0 – Determination of cement content   |
| BS 1881-124:2015       | Testing concrete. Methods for analysis of hardened concrete, CL 6.0 & 7.0 – Determination of aggregate content                                 |
| BS 1881-124:2015       | Testing concrete. Methods for analysis of hardened concrete, Cl. 12.1 – Determination of chloride content                                      |
| BS 1881-124:2015       | Testing concrete. Methods for analysis of hardened concrete, Cl. 12.2 – Determination of sulfate content                                       |
| BS 1377-3:1990 (96)    | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests, Cl. 4 – Loss on ignition                |
| BS 1377-3:1990 (96)    | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests, Cl. 5.2 and 5.5 – Acid soluble sulphate |

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|                     |  |
|---------------------|--|
| BS 1377-3:1990 (96) | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests, Cl. 5.3 and 5.5 – Water soluble sulphate  |
| BS 1377-3:1990      | Methods of test for Soils for civil engineering Purposes, Part 3: Chemical and electro-chemical Tests, Cl. 6.0 - Carbonate content   |
| BS 1377-3:1990 (96) | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests, Cl. 7.2 – Water soluble chloride  |
| BS 1377-3:1990 (96) | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests, Cl. 7.3 – Acid soluble chloride   |
| BS 1377-3:1990 (96) | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests, Cl. 8.0 – Total Dissolved Solids  |
| BS 1377-3:1990 (96) | Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical tests, Cl. 9.0 – pH  |
| ISO 11731.2:2004    | Legionella   |
| ISO 16266:2006      | Pseudomonas aeruginosa   |
| US EPA 3015A        | Microwave Assisted Acid Digestion of Aqueous Samples and Extracts  |
| US EPA 3051A        | Microwave Assisted Acid Digestion of Sediments, Sludges, and Oils  |
| US EPA 3510 C       | Separatory funnel Liquid-Liquid Extraction   |
| US EPA 3550 C       | Ultrasonic Extraction  |
| US EPA 5030 C       | Purge-and-Trap for Aqueous Samples   |
| US EPA 5053 A       | Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples  |
| US EPA 6010 D       | Determination of Metals and Trace Elements by Inductively Coupled Plasma-Atomic Emission Spectrometry:<br>1. Calcium (Ca)<br>2. Magnesium (Mg)<br>3. Sodium (Na)<br>4. Potassium (K)<br>5. Aluminum (Al)<br>6. Antimony (Sb)<br>7. Arsenic (As)<br>8. Barium (Ba)<br>9. Beryllium (Be)<br>10. Bismuth (Bi)<br>11. Boron (B)<br>12. Cadmium (Cd)<br>13. Chromium, total, trivalent (Cr)<br>14. Cobalt (Co)<br>15. Copper (Cu)<br>16. Tellurium (Te) |

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|               |   |
|---------------|---|
|               | <ul style="list-style-type: none"><li>17. Iron (Fe)</li><li>18. Lead (Pb)</li><li>19. Lithium (Li)</li><li>20. Manganese (Mn)</li><li>21. Mercury (Hg)</li><li>22. Molybdenum (Mo)</li><li>23. Nickel (Ni)</li><li>24. Phosphorus (P)</li><li>25. Selenium (Se)</li><li>26. Silicon (Si)</li><li>27. Silver (Ag)</li><li>28. Strontium (Sr)</li><li>29. Sulfur (S)</li><li>30. Tin (Sn)</li><li>31. Titanium (Ti)</li><li>32. Vanadium (V)</li><li>33. Zinc (Zn)</li><li>34. Zirconium (Zr)</li></ul> |
| US EPA 8015 D | <p>Nonhalogenated Organics Using GC/FID</p> <ul style="list-style-type: none"><li>1. TPH (C5-C10)</li><li>2. TPH (C10-C14)</li><li>3. TPH (C15-C28)</li><li>4. TPH (C29-C36)</li><li>5. TPH (C37-C40)</li></ul>   |



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|---------------|--|
| US EPA 8260 D | <p>Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS):</p> <ol style="list-style-type: none"><li>1. Tert-butanol</li><li>2. Methyl-tert-butyl ether MTBE</li><li>3. Allyl chloride (3-chloropropene)</li><li>4. Benzene</li><li>5. Bromobenzene</li><li>6. Bromochloromethane</li><li>7. Bromodichloromethane</li><li>8. Bromoform</li><li>9. n-Butylbenzene</li><li>10. sec-Butylbenzene</li><li>11. tert-Butylbenzene</li><li>12. Carbon disulfide</li><li>13. Carbon tetrachloride</li><li>14. Chlorobenzene</li><li>15. 2-Chloroethanol</li><li>16. Chloroform</li><li>17. Chloroprene (2-chloro-1,3-butadiene)</li><li>18. 2-Chlorotoluene</li><li>19. 4-Chlorotoluene</li><li>20. Dibromochloromethane</li><li>21. 1,2-Dibromo-3-chloropropane (DBCP)</li><li>22. 1,2-Dibromoethane (EDB)</li><li>23. Dibromomethane</li><li>24. 1,2-Dichlorobenzene</li><li>25. 1,3-Dichlorobenzene</li><li>26. 1,4-Dichlorobenzene</li><li>27. cis-1,4-Dichloro-2-butene</li><li>28. trans-1,4-Dichloro-2-butene</li><li>29. 1,1-Dichloroethane</li><li>30. 1,2-Dichloroethane</li><li>31. 1,1-Dichloroethene</li><li>32. cis-1,2-Dichloroethene</li><li>33. trans-1,2-Dichloroethene</li><li>34. 1,2-Dichloropropane</li><li>35. 1,3-Dichloropropane</li><li>36. 2,2-Dichloropropane</li><li>37. 1,1-Dichloropropene</li><li>38. cis-1,3-Dichloropropene</li><li>39. trans-1,3-Dichloropropene</li><li>40. Diethyl ether (ethyl ether)</li><li>41. Ethylbenzene</li><li>42. Ethyl methacrylate</li><li>43. Hexachloro-1,3-butadiene</li><li>44. Iodomethane (methyl iodide)</li><li>45. Isobutyl alcohol (2-methyl-1-propanol)</li><li>46. Isopropylbenzene (cumene)</li><li>47. 4-Isopropyl toluene (p-cymene)</li><li>48. Methyl acrylate</li><li>49. Methyl methacrylate</li></ol> |
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|               |   |
|---------------|---|
|               | <ul style="list-style-type: none"><li>50. Methylene chloride (dichloromethane)</li><li>51. Naphthalene</li><li>52. Nitrobenzene</li><li>53. 2-Nitropropane</li><li>54. n-Propylbenzene</li><li>55. Styrene</li><li>56. 1,1,1,2-Tetrachloroethane</li><li>57. 1,1,2,2-Tetrachloroethane</li><li>58. Tetrachloroethene</li><li>59. Toluene</li><li>60. 1,2,3-Trichlorobenzene</li><li>61. 1,2,4-Trichlorobenzene</li><li>62. 1,1,1-Trichloroethane</li><li>63. 1,1,2-Trichloroethane</li><li>64. Trichloroethene</li><li>65. 1,2,3-Trichloropropane</li><li>66. 1,1,2-Trichlorotrifluoroethane (CFC-113)</li><li>67. 1,2,4-Trimethylbenzene</li><li>68. 1,3,5-Trimethylbenzene</li><li>69. m-Xylene</li><li>70. o-Xylene</li><li>71. p-Xylene</li></ul> |
| Verhoef, 1992 | Methylene Blue Adsorption. The use of methylene blue adsorption test to assess the clay content of the cappadocian tuff   |