

CERTIFICATE OF ACCREDITATION

This is to attest

FUGRO SUHAIMI CO LTD

BUILDING NO.124, NAJAH STREET ISHBILIYAH, DISTRICT RIYADH ISBILIYA, 31451, SAUDI ARABIA

Testing Laboratory TL-1300

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.

Expiry Date September 1, 2026

Effective Date August 26, 2025



International Accreditation Service
Issued under the authority of IAS management

International Accreditation Service, Inc.
3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. I www.iasonline.org

FUGRO SUHAIMI CO LTD

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Accredited to ISO/IEC 17025:2017

Effective Date August 26, 2025

Aggregate		
ASTM C29/C29M	Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate	
ASTM C70	Standard Test Method for Surface Moisture in Fine Aggregate	
ASTM C88	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-µm (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 C566	Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying	
ASTM D75/D75M	Standard Practice for Sampling Aggregates	
ASTM D4791	Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	
BS 812 Part 105.1	Method for determining the flakiness index of coarse aggregates	
BS 812 Part 105.2	Method for determining the elongation index of coarse aggregate	
Bituminous		
ASTM D5/D5M	Standard Test Method for Penetration of Bituminous Materials	
ASTM D979/D979M	Standard Practice for Sampling Bituminous Paving Mixtures	
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 Bitumen From Bituminous Paving Mixtures	
ASTM D2726/D2726M	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures	



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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			
Concrete				
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 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 C231/C231M	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method			
ASTM C109/109M	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)			
ASTM C579	Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes			
ASTM C617/C617M	Standard Practice for Capping Cylindrical Concrete Specimens			
ASTM C780 Annex A.6	Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry			
ASTM C805	Standard Test Method for Rebound Number of Hardened Concrete			
ASTM C1064/C1064M	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete			
ASTM C1231/C1231M	Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens			
ASTM D6132	Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage			
ASTM-C140	Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units			
ASTM C94	Standard Specification for Ready-Mixed Concrete (Annex A1. Concrete Uniformity Requirements).			
BS EN 12350-1	Sampling of Fresh Concrete			
BS EN 12350-2	Slump Test of Fresh Concrete			
BS EN 12350-6	Density of Fresh Concrete			
BS EN 12350-7	Air Content of Fresh Concrete			





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SEN 12390-3 Compressive Strength of Test Specimens Density of Hardened Concrete Soils ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3)) ASTM D854 Standard Test Methods for Specific Gravity of Soil Solids by the Water Displacement Method ASTM D1140 Material in Soils Finer than No. 200 / 0.075mm Sieve ASTM D1196 Standard Test Method for Nonrepetitive Static Plate 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 D1833 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 Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass ASTM D2437 Standard Test Methods for Sand Equivalent Value of Soils and Fine Aggregate ASTM D2437 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Classification System) ASTM D4253 Standard Test Methods for Maximum Index Density and Unit Weight of Soils and Calculation of Relative Density 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 Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis Standard Test Methods for In-Place Density and Water Content of Soil and Rock by Thermal Needle Probe Procedure ASTM D6938 Standard Test Methods for In-Place Estimation of Density and Water Content of Soil and Aggregate by Nuclear Methods (Shallow Depth)	DS EN 12200 2	Making and Curing Specimens for Strongth Tests
Density of Hardened Concrete Soils ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbfff3 (600 kN-m/m3)) ASTM D854 Standard Test Methods for Specific Gravity of Soil Solids by the Water Displacement Method ASTM D1140 Material in Soils Finer than No. 200 / 0.075mm Sieve Standard Test Method for Nonrepetitive Static Plate 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-lbfff3 (2,700 kN-m/m3)) ASTM D1883 Standard Test Methods 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 Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table Standard Test Methods for Maximum Index Density and Unit Weight of Soils and Calculation of Relative Density ASTM D4254 Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis Standard Test Methods for Particle-Size Distribution (Gradation) of Soil and Rock by Thermal Needle Probe Procedure ASTM D698 Standard Test Methods for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure	BS EN 12390-2	Making and Curing Specimens for Strength Tests
Soils ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lb/ff/3 (600 kN-m/m3)) ASTM D854 Standard Test Methods for Specific Gravity of Soil Solids by the Water Displacement Method ASTM D1140 Material in Soils Finer than No. 200 / 0.075mm Sieve Standard Test Method for Nonrepetitive Static Plate 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-lb/ff/3 (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 D2487 Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate ASTM D2453 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density ASTM D4254 Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis ASTM D6913/D6913M Standard Test Methods for In-Place Density and Water Content of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure		
Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft.lb/ft3 (600 kN-m/m3)) ASTM D854 Standard Test Methods for Specific Gravity of Soil Solids by the Water Displacement Method ASTM D1140 Material in Soils Finer than No. 200 / 0.075mm Sieve Standard Test Method for Nonrepetitive Static Plate 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 (66,000 ft-lb/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 D2487 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table ASTM D4253 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Classification System) 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 Inquid Limit, Plastic Limit, and Plasticity Index of Soils SaTM D6913/D6913M Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis Standard Test Methods for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for Determination of Density and Water Content of Soil and Aggregate by Nuclear Methods (Shallow Depth)		Density of Hardened Concrete
Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3)) ASTM D854 Standard Test Methods for Specific Gravity of Soil Solids by the Water Displacement Method ASTM D1140 Material in Soils Finer than No. 200 / 0.075mm Sieve Standard Test Method for Nonrepetitive Static Plate 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 D2487 Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate ASTM D2487 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table ASTM D4253 Standard Test Methods for Minimum Index Density and Unit Weight of Soils using a Vibratory Table ASTM D4318 Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density 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 Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	Soils	
Displacement Method ASTM D1140 Material in Soils Finer than No. 200 / 0.075mm Sieve Standard Test Method for Nonrepetitive Static Plate 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/ff3 (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 D2487 Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate ASTM D2487 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table STAND D2484 Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density ASTM D4318 Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density 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 Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Morcleation of Vibramal Needle Probe Procedure	ASTM D698	
Standard Test Method for Nonrepetitive Static Plate Tests of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3)) Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate ASTM D2419 Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate ASTM D2487 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table Standard Test Methods for Minimum Index Density and Unit Weight of Soils using a Vibratory Table Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) Standard Test Methods for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D854	
Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements 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-lb/fft3 (2,700 kN-m/m3)) ASTM D1883 Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass ASTM D2216 Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate 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 D4253 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table 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 D6913/D6913M Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D1140	Material in Soils Finer than No. 200 / 0.075mm Sieve
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 D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System) ASTM D4253 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table 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 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) Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D1196	Pavement Components for Use in Evaluation and Design of Airport and Highway
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 D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System) ASTM D4253 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table 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 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 Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Rock Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D1556/D1556M	
Compacted Soils Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System) Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils ASTM D4318 Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis ASTM D6913/D6913M Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Rock by Thermal Needle Probe Procedure Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D1557	
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 D4253 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table 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 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) ASTM D5334 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D1883	
ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System) Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table 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 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) ASTM D5334 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D2216	
Classification System) ASTM D4253 Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table 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 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) ASTM D5334 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D2419	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate
Using a Vibratory Table 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 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) ASTM D5334 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D2487	
Calculation of Relative Density ASTM D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils 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) ASTM D5334 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D4253	
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) ASTM D5334 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D4254	
Sieve Analysis Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth) Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D5334 Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D6913/D6913M	
by Thermal Needle Probe Procedure ASTM D7698 Standard Test Method for In-Place Estimation of Density and Water Content of Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D6938	
Soil and Aggregate by Correlation with Complex Impedance Method	ASTM D5334	Standard Test Method for Determination of Thermal Conductivity of Soil and Rock by Thermal Needle Probe Procedure
Reinforced Steel Bars	ASTM D7698	
	Reinforced Steel Bars	



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ASTM A615/A615M	Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete
	Reinforcement

