



Accredited Laboratory

A2LA has accredited

PIONEER LABORATORY

Doha, Qatar

for technical competence in the field of

Construction Materials Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 13th day of July 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4913.01
Valid to July 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Construction Materials Scope of Accreditation.



Accredited Laboratory

A2LA has accredited

PIONEER LABORATORY

Doha, Qatar

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 13th day of July 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4913.03
Valid to July 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CONSTRUCTION MATERIALS TESTING

Valid To: July 31, 2022

Certificate Number: 4913.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for:

Test Method:	Test Description:
Aggregates:	
ASTM C40/C40M	Organic Impurities in Fine Aggregates for Concrete
ASTM C88	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
ASTM C117	Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
ASTM C123	Lightweight Particles in Aggregate
ASTM C127	Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate
ASTM C128	Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate
ASTM C131	Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM C136/C136M	Sieve Analysis of Fine and Coarse Aggregates
ASTM C142	Clay Lumps and Friable Particles in Aggregates
ASTM C535	Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
ASTM D75/D75M ¹	Sampling Aggregates
ASTM D2419	Sand Equivalent Value of Soils and Fine Aggregate
ASTM D4791	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate
ASTM D5821	Determining the Percentage of Fractured Particles in Coarse Aggregate
BS 812 Part 2 Section 5.3	Testing aggregates Part 2: Methods for determination of density Clause 5.3: Method for aggregates all larger than 10mm
BS 812 Part 2 Sections 5.4 and 5.5	Testing aggregate Part 2: Methods for determination of density Particle density and water absorption of aggregate between 40mm and 5mm Particle density and water absorption 10mm aggregate & smaller

Test Method:	Test Description:
BS 812 Section 103.1	Testing Aggregates Method for determination of particle size distribution. Sieve tests
BS 812 Part 102	Testing Aggregates Methods for sampling Sampling coarse, fine and all-in aggregates-from heaps
BS 812 Part 105 Section 105.1	Testing Aggregates Part 105: Methods for determination of particle shape. Flakiness index
BS 812 Part 105 Section 105.2	Testing Aggregates Methods for determination of particle shape- elongation index
BS 812 Part 109	Testing Aggregates Methods for determination of moisture content (drying oven)
BS 812 Part 110	Testing Aggregates Methods for determination of aggregate crushing value (ACV)
BS 812 Part 111	Testing Aggregates Methods for Determination of Ten Per Cent Fines Value (TFV)
BS 812 Part 112	Testing Aggregates Method for determination of Aggregate Impact Value (AIV}
BS 812 Part 117	Testing Aggregates Method for determination of water-soluble chloride salts
BS 812 Part 118	Testing Aggregates Methods for determination of sulphate content
BS 1377 Part 3 Section 7.6	Methods of test for soils for civil engineering purposes Chemical and electro-chemical tests Determination of the sulphate content of soil and ground water Preparation of soil and its acid extract)
BS 1377 Part 3 Clause 7.3	Methods of test for soils for civil engineering purposes Chemical and electro-chemical tests Water soluble sulfate content
BS 1377 Part 3 Clause 4	Methods of test for soils for civil engineering purposes Chemical and electro-chemical tests- Determination of the organic matter content
BS 1377 Part 3 Clause 9.2	Methods of test for soils for civil engineering purposes Chemical and electro-chemical tests for Water soluble chloride
BS 1377 Part 3 Section 9.3	Methods of test for soils for civil engineering purposes Chemical and electro-chemical tests Determination of the chloride content- Determination of acid soluble chloride content
BS EN 933 Part 7	Tests for geometrical properties of aggregates Determination of shell content. Percentage of shells in coarse aggregates
BS EN 933-1	Tests for geometrical properties of aggregates. Determination of particle size distribution. Sieving method
BS EN 933-8	Tests for geometrical properties of aggregates. Assessment of fines. Sand equivalent test
BS EN 1097 Part 6	Tests for mechanical and physical properties of aggregates. Determination of particle density and water absorption

Test Method:	Test Description:
BS EN 1744 Part 1	Tests for chemical properties of aggregates. Chemical analysis Sulphate content/acid soluble in aggregate
BS EN 1744 Part 5	Tests for chemical properties of aggregates Determination of acid soluble chloride salts
Asphalt:	
ASTM D5/D5M	Penetration of Bituminous Materials
ASTM D36	Softening Point of Bitumen (Ring & Ball Apparatus)
ASTM D70	Density of Semi-Solid Bituminous Materials (Pycnometer Method)
ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
ASTM D402/D402M	Distillation of Cutback Asphalt
ASTM D546	Sieve Analysis of Mineral Filler for Bituminous Paving Mixtures
ASTM C702 ¹	Reducing Samples of Aggregate to Testing Size
ASTM D979/D979M	Sampling Bituminous Paving Mixtures
ASTM D1188	Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples
ASTM D2041	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
ASTM D2172	Quantitative Extraction of Bitumen from Bituminous Paving Mixtures
ASTM D2726	Bulk Specific Gravity and Density of Non-Absorptive Compacted Bituminous Mixtures
ASTM D2995	Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors
ASTM D3203	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
ASTM D3549	Thickness or Height of Compacted Bituminous Paving Mixture Specimens
ASTM D5361 ¹	Sampling Compacted Bituminous Mixtures for Laboratory Testing
ASTM D5444	Mechanical Size Analysis of Extracted Aggregate
ASTM D6926	Preparation of Bituminous Specimens Using Marshall Apparatus
ASTM D6927	Marshall Stability and Flow of Bituminous Mixtures
BS EN 1426	Bitumen and bituminous binders. Determination of needle penetration
BS EN 12697 Part 1 Clause B.1.5	Bituminous mixtures-Test methods for hot mix asphalt Soluble binder content
BS EN 12697 Part 2	Bituminous mixtures-Test method for hot mix asphalt Determination of particle size distribution
BS EN 12697 Part 6	Bituminous Mixtures-Test methods for hot mix asphalt Determination of bulk density of bituminous specimen
BS EN 12697 Part 13	Bituminous Mixtures-Test methods for hot mix asphalt Temperature measurement
BS EN 12697 Part 27 Clauses 4.3, 4.5 & 4.7	Bituminous Mixtures-Test methods for hot mix asphalt Asphalt Sampling
BS EN 12697 Part 28	Bituminous mixtures-Test methods for hot mix asphalt Preparation of samples for determining binder content, water content and grading

Test Method:	Test Description:
BS EN 12697 Part 29	Bituminous Mixtures-Test methods for hot mix asphalt Determination of the dimensions of a bituminous specimen
BS EN 12697 Part 30	Bituminous Mixtures-Test methods for hot mix asphalt Specimen preparation by impact compactor
BS EN 12697 Part 34	Bituminous Mixtures-Test methods for hot mix asphalt Marshall Test Marshall stability and flow
BS EN 12697 Part 36 Cl 4.1	Bituminous Mixtures-Test methods for hot mix asphalt Part 36: Determination of the thickness of a bituminous pavement
Cement:	
ASTM C114 (Clause 18)	Chemical Analysis of Hydraulic Cement
ASTM C151/C151M	Autoclave Expansion of Hydraulic Cement
ASTM C187	Amount of Water Required for Normal Consistency of Hydraulic Cement Paste
ASTM C188	Density of Hydraulic Cement
ASTM C191	Time of Setting of Hydraulic Cement by Vicat Needle
ASTM C204	Fineness of Hydraulic Cement by Air-Permeability Apparatus
ASTM C989	Compressive strength for Ground Granulated Blast Furnace Slag
BS EN 196 Part 3-Cl.7	Determination of Soundness of Cement
Concrete:	
ASTM C39/C39M	Compressive Strength of Cylindrical Concrete Specimens
ASTM C42/C42M	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete
ASTM C143/C143M ¹	Slump of Hydraulic-Cement Concrete
ASTM C172/C172M ¹	Sampling Freshly Mixed Concrete
ASTM C231/C231M ¹	Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C617	Capping Cylindrical Concrete Specimens
ASTM C1064/C1064M ¹	Temperature of Freshly Mixed Hydraulic-Cement Concrete
ASTM C1202	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration
BS 2484	Specification for straight concrete and clayware cable covers Impact resistance of concrete cable covers
BS 1881 Part 122	Testing concrete Method for determination of water absorption
BS 1881 Part 124 Clause 12.1	Testing Concrete Methods for analysis of hardened concrete (Determination of Chloride content in hardened concrete)
BS 1881 Part 124 Clause 12.2	Testing Concrete Methods for analysis of hardened concrete (Determination of Sulphate content in hardened concrete)
BS 1881 Part 208	Testing concrete Recommendations for the determination of the initial surface absorption of concrete
BS 6717 Part 1 Annex A	Precast concrete paving blocks. Specification for paving blocks

Test Method:	Test Description:
BS 6717 Part 1 Annex B	Precast concrete paving blocks. Specification for paving blocks- Determination of compressive strength
BS EN 12350 Part 1	Testing fresh concrete. Sampling
BS EN 1338 Annex E	Concrete paving blocks. Requirements and test methods Determination of total water absorption
BS EN 1340 Annex E	Concrete kerb units. Requirements and test methods (Determination of total water absorption)
BS EN 1340 Annex F	Concrete kerb units. Requirements and test methods (Measurement of Bending strength)
BS EN 12390 Part 1	Testing hardened concrete Shape Dimensions and other requirements for specimens and molds
BS EN 12390 Part 2 ¹	Testing hardened concrete Making and curing specimens for strength tests
BS EN 12390 Part 3	Testing hardened concrete Compressive strength of test specimens
BS EN 12390 Part 7	Testing hardened concrete Density of hardened concrete
BS EN 12350 Part 2 ¹	Testing fresh concrete Slump test
BS EN 12350 Part 5 ¹	Testing fresh concrete Flow table test
BS EN 12504 Part 2	Testing concrete in structures Non-destructive Testing. Determination of rebound number
NT Build 492	Hardened Concrete Chloride Ion Migration
BS EN 13395-2	Determination of workability (Test for flow of grout or Mortar)
BS EN 445: Cl.# 4.3	Grout for Pre-stressing Tendons-Test Methods determination of fluidity of grout (By cone method)
BS EN 12390-8	Depth of Penetration of water under pressure
<u>Masonry:</u>	
ASTM C140	Sampling and Testing Concrete Masonry Units and Related Units
BS 6073 Part 1 Appendix B	Precast concrete masonry units Specification for precast concrete masonry units Appendix B: Determination of compressive strength
BS EN 772 Part 1	Methods of test for masonry units Determination of compressive strength
BS EN 772 Part 3 & 11	Methods of test for masonry units Part 3: Determination of net volume and percentage of voids of clay masonry units by hydrostatic weighing Part 11: Determination of water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units
BS EN 1340 Annex E	Concrete kerb units Requirements and test methods
BS EN 1338 Annex F	Tensile Strength of Paving Blocks

Test Method:	Test Description:
BS EN 196 Part 7	Taking and Preparing Samples of Cement
Road and Pavement Surfaces:	
ASTM D92	Flash Point, Cleveland Open Cup
ASTM D140	Sampling of Binders
ASTM D2042	Solubility in Trichloroethylene
ASTM D2950	Density of Bituminous Concrete in Place by Nuclear Methods
ASTM D4402/D4402M	Viscosity Determination Using Rotational Viscometer (RV)
ASTM D5581	Resistance to Plastic Flow Using Marshall Apparatus (6 in. Specimen)
ASTM D6931	Indirect Tensile (IDT) Strength of Bituminous Mixtures
ASTM E303	Surface Frictional Properties Using the British Pendulum Tester
ASTM E1703/E1703M	Measuring Rut-Depth of Pavement Surfaces Using a Straightedge
BS 2000-35	Flash Point (Open) of Thermoplastic Material
BS 2000-58	Softening Point (Ring and Ball Method) of Thermoplastic Material
BS 3262 Part 3-Ap. B	Dry Film Thickness
BS 3262 Part 1 Ap. D	Glass Bead Content of Thermoplastic Material
BS 3262 Part 1-Ap. J	Measurement of Skid Resistance
BS 3262 Part 3 Ap. C	Determination of Density of Thermoplastic Material
BS 3262 Part 1 Ap. H	Flow Resistance of Thermoplastic Material
BS 6088 Appendix B	Particle Size Distribution of Glass Beads
BS EN 13197 Annex C.1.3	Wet Film Thickness by Notch Gauge
Soils:	
ASTM D1140	Amount of Material in Soils Finer than No. 200 (75- μ m) Sieve
ASTM D1556 ¹	Density and Unit Weight of Soil in Place by Sand-Cone Method
ASTM D1557	Laboratory Compaction Characteristics of Soil Using Modified Effort
ASTM D1883	CBR (California Bearing Ratio) of Laboratory-Compacted Soils
ASTM D2216	Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D4318	Liquid Limit, Plastic Limit, and Plasticity Index of Soils
ASTM D4429 ¹	CBR (California Bearing Ratio) of Soils in Place
ASTM D4543	Preparing Rock Core Specimens to Dimensional and Shape Tolerances
ASTM D4718/D4718M	Unit Weight and Water Content for Soils Containing Oversize Particles
ASTM D6913	Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis
ASTM D6938 ¹	In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)
ASTM D7012 Method C	Compressive Strength of Rock Core Specimen
ASTM G57	Electrical Resistivity Test
ASTM D6951	Standard test method for use of the Dynamic Con Penetrometer in shallow pavement application
ASTM D4373	Standard Test Method for Rapid Determination of Carbonate Content of Soil
BS 1377 Part 9 Clause 2.5	Methods of test for soils for civil engineering purposes In-situ tests- Nuclear methods suitable for fine, medium and coarse-grained soils (Filed Density test by Nuclear Gauge FDT)

Test Method:	Test Description:
BS1377 Part 2 Clause 3	Methods of test for soils for civil engineering purposes Part 2: Classification tests Clause 3: Determination of moisture content
BS 1377 Part 2 Clause 4.3	Methods of test for Soils for civil engineering purposes Part 2: Classification tests Clause 4.3: Determination of the liquid limit - Cone penetrometer method (definitive method)
BS 1377 Part 2 Clauses 5.3 & 5.4	Methods of test for Soils for civil engineering purposes Part 2: Classification tests Clause 5: Determination of the plastic limit and plasticity index: Method for plastic limit Derivation of plasticity index and liquidity index
BS 1377 Part 2 Clauses 9.2 & 9.3	Methods of test for Soils for civil engineering purposes Part 2: Classification tests Clause 9: Determination of particle size distribution: Wet sieving method Dry Sieving Method
BS 1377 Part 4 Test 7	Methods of test for Soils for civil engineering purposes Compaction-related tests. Determination of the California Bearing Ratio (CBR)
BS 1377 Part 4 Clauses 3.5 & 3.6	Methods of test for Soils for civil engineering purposes Part 4: Compaction-related tests. Clause 3: Determination of dry density/moisture content relationship: Method using 4.5 kg rammer for soils with particles up to medium-gravel size Method using 4.5 kg rammer for soils with some coarse gravel-size particles
BS 1377 Part 9 Clauses 2.1 & 2.2	Methods of test for soils for civil engineering purposes In-situ tests Clause 2: Sand replacement method suitable for fine, medium and coarse-grained soils (large and small pouring cylinder method)
BS 1377 Part 9 Clause 4.1	Methods of test for soils for civil engineering purposes Part 9: In-situ tests Clause 4.1: Determination of the vertical deformation and strength characteristics of soil by the plate loading test



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CHEMICAL

Valid To: July 31, 2022

Certificate Number: 4913.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for testing on the following environmental and construction-related samples of soils and water:

Test Method:	Test Description:
Chemical Tests:	
BS EN 196 Part 21-Cl. 4	Chloride Content
BS EN 196 Part 2-Cl. 7	Loss on Ignition
APHA/AWWA 2130 B 23rd Edition 2017	Turbidity
APHA/AWWA 2540-B 23rd Edition 2017	Total Solids
APHA/AWWA 2540-D 23rd Edition 2017	Total Suspended Solids (TSS)
APHA/AWWA 2540-C 23rd Edition 2017	Total Dissolved Solids (TDS)
APHA/AWWA 5520 D 23rd Edition 2017	Oil & grease
APHA/AWWA 4500-SO ₄ ²⁻ 23rd Edition 2017	Sulfate
APHA/AWWA-9223 B Method #4C 23rd Edition 2017 IDEXX method C	Total Coliforms
APHA/AWWA-9223 B Method #4C 23rd Edition 2017 IDEXX method C	Fecal Coliform
APHA/AWWA-9223 B Method #4C 23rd Edition 2017 IDEXX method C	E-Coli

Test Method:	Test Description:
Chemical (Water):	
BS 1377-3 Clause 9.2.5 & 9.2.7	Methods for test for soils for civil engineering purposes Part 3: Chemical and electro-chemical test. Water soluble chloride content
BS 1377 Part 3 Clause 11	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of total dissolved solids
BS 1377 Part 3 Clause 12	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests (Determination of the pH value)
APHA/AWWA 2510-B 23rd Edition 2017	Electrical Conductivity
APHA/AWWA 4500-H+B 23rd Edition 2017	pH value

Example certificate for the current certificate, Please contact us.

