



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **QATAR ENGINEERING LABORATORIES WLL**

STREET 50, GATE 26, BUILDING NO.18, DOHA INDUSTRIAL AREA  
DOHA, 40278, QATAR

### **Testing Laboratory TL-424**

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 May 28, 2025



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

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

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## QATAR ENGINEERING LABORATORIES WLL

[www.qelonweb.com](http://www.qelonweb.com)

Location	Address	Contact Name	Contact Phone	Scope Pages
Location 1	Street 50, Gate 26, Building No.18, Doha Industrial Area Doha, Na 40278 Qatar	N Sabu	+97433096029	2-19
Location 2	Building No 10, Zone 74, Street 951, Al Khor, Qatar	N Sabu	+97433096029	19

Accredited to ISO/IEC 17025:2017

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### Location 1

Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Aggregate	AASHTO R47	Reducing samples to Testing size	QEL Main Laboratory
Aggregate	ASTM C88	Soundness of Aggregate Using Sodium Sulfate or Magnesium Sulfate	QEL Main Laboratory
Aggregate	ASTM C117	Standard Test Method for Material Finer Than 75 Micron Sieve in Mineral Aggregate by Washing	QEL Main Laboratory
Aggregate	ASTM C123 / C23M	Standard Test Method for Light Weight Particles in Aggregate	QEL Main Laboratory
Aggregate	ASTM C127	Standard Test Method for Density, Relative Density and Absorption of Coarse Aggregate	QEL Main Laboratory
Aggregate	ASTM C128	Standard Test Method for Density, Relative Density and Absorption of Fine Aggregate	QEL Main Laboratory
Aggregate	ASTM C131 / C131	Standard Test Method for Los Angeles Abrasion –Small Size Coarse Aggregate	QEL Main Laboratory
Aggregate	ASTM C142	Standard Test Method for Clay Lumps and Friable Particles in Aggregate	QEL Main Laboratory
Aggregate	ASTM C535	Standard Test Method for Los Angeles Abrasion –Large Size Coarse Aggregate	QEL Main Laboratory
Aggregate	ASTM C702 / C702M	Standard Practice for Reducing Samples of Aggregate to Testing Size	QEL Main Laboratory
Aggregate	ASTM C1252	Uncompacted Void Content of Fine Aggregate	QEL Main Laboratory
Aggregate	ASTM D75 / D75M	Standard Practice for Sampling Aggregates	QEL Main Laboratory
Aggregate	ASTM D4791	Standard Test Method for Flat & Elongated Particles	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Aggregate	ASTM D6928	Resistance of coarse aggregate to degradation by abrasion in the Microdeval apparatus	QEL Main Laboratory
Aggregate	BS 812-2 CI 5.3	Sampling Method for Aggregate Larger Than 10 mm.	QEL Main Laboratory
Aggregate	BS 812-2 CL 5.4	Particle Density and Water Absorption CL 5.4 Method for aggregates between 40 mm and 5 mm	QEL Main Laboratory
Aggregate	BS 812-2 CL 5.5	Particle Density and Water Absorption CL 5.5 Method for aggregates 10 mm nominal size and smaller	QEL Main Laboratory
Aggregate	BS 812-2 CI 6.2	Testing aggregates CL 6.2 Sampling	QEL Main Laboratory
Aggregate	BS 812-2 CI 6.3.4.2	Determination of Bulk Density and Voids of Aggregate	QEL Main Laboratory
Aggregate	BS 812-102	Method of Sampling of Aggregate	QEL Main Laboratory
Aggregate	BS 812-103	Method for the Determination of Particle Size Distribution	QEL Main Laboratory
Aggregate	BS 812-105.1	Method for the Determination of Particle Shape, Flakiness Index of Coarse Aggregate	QEL Main Laboratory
Aggregate	BS 812-105.2	Method for the Determination of Particle Shape, Elongation Index of Coarse Aggregate	QEL Main Laboratory
Aggregate	BS 812-109	Method for the Determination of Moisture Content	QEL Main Laboratory
Aggregate	BS 812-110	Method for the Determination of Aggregate Crushing Value	QEL Main Laboratory
Aggregate	BS 812-111	Method for the Determination of Ten Percentage Fines Value of Aggregate	QEL Main Laboratory
Aggregate	BS 812-112	Method for the Determination of Aggregate Impact Value	QEL Main Laboratory
Aggregate	BS 812-121	Testing Aggregate-Method for Determination of Soundness of Aggregate	QEL Main Laboratory
Aggregate	BS EN 932-1	Tests for General Properties of Aggregate. Method of Sampling	QEL Main Laboratory
Aggregate	BS EN 932-2 CL 8 & CL 10	Tests for General Properties of Aggregate. Test for Reducing the Samples	QEL Main Laboratory
Aggregate	BS EN 933-1	Determination of Particle Size Distribution of Aggregate)	QEL Main Laboratory
Aggregate	BS EN 933-3	Determination of Aggregate Particle Shape-Flakiness Index	QEL Main Laboratory
Aggregate	BS EN 933-7	Determination of Shell Content in Coarse Aggregate	QEL Main Laboratory
Aggregate	BS EN 933-8	Assessment of Sand Equivalent Test	QEL Main Laboratory
Aggregate	BS EN 1097-2 CI 5	Determination of Los Angeles Abrasion	QEL Main Laboratory
Aggregate	BS EN 1097-6	Determination of Particle Density and Water Absorption of Aggregate	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Aggregate	BS EN 1367 Part 2	Determination of Magnesium Sulphate Soundness	QEL Main Laboratory
Aggregate	BS EN 1367 Part 4	Determination of Drying Shrinkage	QEL Main Laboratory
Asphalt Aggregate	ASTM C136 / C136 M	Standard Test Method for Sieve Analysis	QEL Main Laboratory
Asphalt Aggregate	ASTM D546	Standard Practice for Sieve Analysis of Mineral Filler in Bituminous Mixtures	QEL Main Laboratory
Asphalt Aggregate	ASTM D5821	Standard Practice for Determining the Percentage of Fractured Particles in Coarse Aggregate	QEL Main Laboratory
Asphalt	AASHTO T 283	Resistance of Compacted Asphalt to Moisture Induced Damage	QEL Main Laboratory
Asphalt	AASHTO T 312	Sample Preparation and Density of Specimens Using Gyratory Compactor	QEL Main Laboratory
Asphalt	AASHTO PP60	Preparation of Performance Test Specimens Using Gyratory Compactor	QEL Main Laboratory
Asphalt	ASTM D6	Loss on Heating of Oil and Asphaltic Compounds	Main Laboratory
Asphalt	ASTM D36 / D36M	Standard Test Method for Softening Point of Bitumen (Ring & Ball Apparatus)	QEL Main Laboratory
Asphalt	ASTM D70	Standard Test Method for Density of Semi Solid Bituminous Mixtures	QEL Main Laboratory
Asphalt	ASTM D92	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	QEL Main Laboratory
Asphalt	ASTM D113	Standard Test Method for Ductility of Bituminous Material	Main Laboratory
Asphalt	ASTM D140 / D140M	Standard Practice for Sampling Bituminous Materials	QEL Main Laboratory
Asphalt	ASTM D979 / D979M	Standard Practice for Sampling Bituminous Paving Mixtures	QEL Main Laboratory
Asphalt	ASTM D1188	Standard Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples	QEL Main Laboratory
Asphalt	ASTM D1754	Standard Test Method for the Effect of Air and Air on Asphaltic Materials.	Main Laboratory
Asphalt	ASTM D2041 / D2041	Standard Test Method for Theoretical Specific Gravity & Density of Bituminous Mixtures	QEL Main Laboratory
Asphalt	ASTM D2171	Standard Test Method for Viscosity of Asphalt by Vacuum Capillary Viscometer.	Main Laboratory
Asphalt	ASTM D2172 / D2172M	Standard Test Method for the Quantitative Extraction of Bitumen From Bituminous Paving Mixtures	QEL Main Laboratory
Asphalt	ASTM D2726 / D2726	Standard Test Method for Bulk Specific Gravity and Density of Non Absorptive Compacted Bituminous Mixtures	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Asphalt	ASTM D2950 / D2950M	Standard Test Method for Density of Bituminous Concrete in Place by Nuclear Methods	QEL Main Laboratory
Asphalt	ASTM D2995	Standard Practice for Estimating Application Rate of Bituminous Distributors	QEL Main Laboratory
Asphalt	ASTM D3549 / D3549	Standard Test Method for Thickness or Height of Compacted Bituminous Specimens	QEL Main Laboratory
Asphalt	ASTM D4867	Moisture on asphalt concrete paving mixture	QEL Main Laboratory
Asphalt	ASTM D5361 / D5361M	Standard Practice for Sampling Compacted Bituminous Mixtures for Laboratory Testing	QEL Main Laboratory
Asphalt	ASTM D5444	Standard Test Method for Mechanical Size Analysis of Extracted Aggregate	QEL Main Laboratory
Asphalt	ASTM D5581	Standard Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus (6 inch- Diameter Specimen)	QEL Main Laboratory
Asphalt	ASTM D6925	Standard Test Method for Preparation and Determination of the Relative Density of Asphalt Mix Specimens by Means of the Superpave Gyratory Compactor	QEL Main Laboratory
Asphalt	ASTM D6926	Standard Practice for Preparation of Bituminous Specimen Using Marshall Apparatus	QEL Main Laboratory
Asphalt	ASTM D6927	Standard Test Method for Marshall Stability & Flow of Asphalt Mixtures	QEL Main Laboratory
Asphalt	ASTM D6931	Indirect Tensile strength of bituminous mixture	QEL Main Laboratory
Asphalt	ASTM E1926	Standard Practice for Computing International Roughness Index of Roads from Longitudinal Profile Measurements	QEL Main Laboratory
Asphalt	BS 598-102 Annex E & F	Determination of Binder Content by Centrifugal Extraction Method	QEL Main Laboratory
Asphalt	BS 3262-1 Ap.C	Binder content of thermoplastic	QEL Main Laboratory
Asphalt	BS EN 1426	Determination of Needle Penetration of Bituminous Binders	QEL Main Laboratory
Asphalt	BS EN 1427	Determination of Softening Point- Ring & Ball Method.	QEL Main Laboratory
Asphalt	BS EN 12697-1	Bituminous mixtures – Test methods Part 1: Soluble binder content	QEL Main Laboratory
Asphalt	BS EN 12697-2	Determination of Hot Mix Asphalt– Determination of Particle Size Distribution.	QEL Main Laboratory
Asphalt	BS EN 12697-5	Test Method for Hot Mix Asphalt- Determination of Maximum Density	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Asphalt	BS EN 12697-6	Bituminous mixtures — Test methods Part 6: Determination of bulk density of bituminous specimens	QEL Main Laboratory
Asphalt	BS EN 12697-8	Bituminous mixtures - Test methods Part 8: Determination of void characteristics of bituminous specimens	QEL Main Laboratory
Asphalt	BS EN 12697-13	Test Method for Hot Mix Asphalt - Temperature Measurement	QEL Main Laboratory
Asphalt	BS EN 12697-14	Test Method for Hot Mix Asphalt - Water Content	QEL Main Laboratory
Asphalt	BS EN 12697-27	Test Method for Hot Mix Asphalt – Sampling	QEL Main Laboratory
Asphalt	BS EN 12697-28	Bituminous mixtures – Test methods Part 28: Preparation of samples for determining binder content, water content and grading	QEL Main Laboratory
Asphalt	BS EN 12697-29	Test Method for Hot Mix Asphalt - Determination of Dimensions of Bituminous Specimen	QEL Main Laboratory
Asphalt	BS EN 12697-30	Test Method for Hot Mix Asphalt - Specimen by Impact Compactor	QEL Main Laboratory
Asphalt	BS EN 12697-34	Test Method for Hot Mix Asphalt- Marshall Test	QEL Main Laboratory
Asphalt	BS EN 12697-36	Test Method for Hot Mix Asphalt - Determination of Thickness of Bituminous Pavement	QEL Main Laboratory
Asphalt	BS EN 13036-6	Test Method- Measurement of Transverse and Longitudinal Profiles in the Evenness and Mega structure Wavelength Ranges	QEL Main Laboratory
Asphalt	BS 3262-1 Ap.C	Binder content of thermoplastic	QEL Main Laboratory
Bitumen	ASTM D5 / D5M	Standard Test Method for Penetration of Bituminous Mixtures	QEL Main Laboratory
Bitumen	ASTM D2042	Solubility in Trichloroethylene	QEL Main Laboratory
Bitumen	ASTM D2872	Effect of Heat and Air on Moving Film of Asphalt	QEL Main Laboratory
Bitumen	ASTM D4402	Viscosity Determination by Rotational Viscometer	QEL Main Laboratory
Bitumen	ASTM D7113 / D7113	Standard Test Method for Density of Bituminous Mixtures in Place by Electromagnetic Surface Contact Method	QEL Main Laboratory
Bitumen	BS 812-103	Method for the Determination of Particle Size Distribution of Aggregate	QEL Main Laboratory
Cement	ASTM C183	Standard Practice for Sampling & Amount of Testing for Hydraulic Cement	QEL Main Laboratory
Cement	ASTM C191	Standard Test Method for Setting Time of Cement by Vicat Needle.	QEL Main Laboratory
Cement	BS EN 196-1	Determination of Strength Test for Cement	QEL Main Laboratory

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Cement	BS EN 196-3	Determination of Soundness and Setting Time.	QEL Main Laboratory
Cement	BS EN 196-6	Determination of Fines of Cement	QEL Main Laboratory
Cement	BS EN 196-7	Method of Taking and Preparing Samples of Cement	QEL Main Laboratory
Cementitious Materials	ASTM C187	Standard Test Method for the Amount of Water Required for the Standard Consistency of Hydraulic Cement Paste.	QEL Main Laboratory
Cementitious Materials	ASTM C311 / C311M	Standard Test Method for Sampling and Testing Fly Ash	QEL Main Laboratory
Cementitious Materials	ASTM C349	Standard Test Method for Compressive Strength of Hydraulic Cement	QEL Main Laboratory
Cementitious Materials	ASTM C989 / C989M	Standard Specification for Slag Cement for Use in Concrete	QEL Main Laboratory
Cementitious Materials	ASTM C1012	Length Change of Cement Mortars	QEL Main Laboratory
Cementitious Materials	ASTM C1240	Standard Test Method for Silica Fumes Used In Cementitious Mixture	QEL Main Laboratory
Cementitious Materials	ASTM D5759	Standard Guide for Characterization of Coal and Fly Ash	QEL Main Laboratory
Chemical	HACH 8192	Quantitative Determination of Nitrate.	Main Laboratory
Chemical Aggregate	ASTM C40 / C40M	Standard Test Method for Organic Impurities in Fine Aggregate for Concrete	QEL Main Laboratory
Chemical Aggregate	BS 812-117 Appendix C	Method for the Determination for Water Soluble Chloride Content in Aggregate.	QEL Main Laboratory
Chemical Aggregate	BS 812-118 Cl 6	Determination of Total Sulphate Content by Acid Extraction	QEL Main Laboratory
Chemical Aggregate	BS EN 933-9	Methylene Blue Test	QEL Main Laboratory
Chemical Aggregate	BS EN 1744-1	Test for Chemical Properties of Aggregate Sulphate -Chemical Analysis	QEL Main Laboratory
Chemical Aggregate	BS EN 1744-5	Test for Chemical Properties of Aggregate- Determination of acid Soluble Chloride Salts	QEL Main Laboratory
Chemical Cement	ASTM C114	Standard Test Method for Chemical Analysis of Hydraulic Cement	QEL Main Laboratory
Chemical Cement	BS EN 196-2	Chemical Analysis of Cement - 4.4.1 (LOI), 4.4.2 (Sulfate), 4.4.3 (Insol Residue), 4.5.5 (Silica), 4.5.6 (Pure Silica), 4.5.8 (Soluble Silica), 4.5.9 (Total Silica), 4.5.10 (Iron (III) Oxide), 4.5.11 (Alum Oxide), 4.5.12 (CaO by EDTA), 4.5.13 (MgO by EDTA), 4.5.16 (Chloride), 4.5.19 (Alkali)	QEL Main Laboratory
Chemical Cement	BS EN 196-4	Quantitative Determination of Constituents of Cement	QEL Main Laboratory
Chemical Cement	BS EN 196-5	Pozzolancy Test of Pozzolanic Cement	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Chemical Cement	BS EN 196-21 (Tests 4 and 7)	Determination of Chloride, Carbon Dioxide & Alkali Content of Cement (tests 4 and 7)	QEL Main Laboratory
Chemical Concrete	ASTM C1152 / C1152M	Standard Test Method for Acid Soluble Chloride in Mortar & Concrete	QEL Main Laboratory
Chemical Concrete	BS 1881-124 CL 10.2 & 10.3	Determination of Chloride & Sulphate Content of Concrete	QEL Main Laboratory
Concrete	AASHTO TP- 64. 03 /NT BUILD 492	Predicting Chloride Penetration of Hydraulic Cement Concrete by Rapid Migration Process	QEL Main Laboratory
Concrete	ASTM C31 / C31M	Standard Practice for Making & Curing Concrete Test Specimens	QEL Main Laboratory
Concrete	ASTM C39 / C39M	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	QEL Main Laboratory
Concrete	ASTM C42	Obtaining and Testing of Drilled Cores and Sawed Beams	QEL Main Laboratory
Concrete	ASTM C78 / C78M	Standard Test Method for Flexural Strength of Concrete (3 Point Method)	QEL Main Laboratory
Concrete	ASTM C138 / C138M	Standard Test Method for Density and Air Content (Gravimetric) of Concrete	QEL Main Laboratory
Concrete	ASTM C143 / C143M	Standard Test Method for Slump of Hydraulic Cement Concrete	QEL Main Laboratory
Concrete	ASTM C172 / C172M	Standard Practice for Sampling Freshly Mixed Concrete	QEL Main Laboratory
Concrete	ASTM C231 / C231M	Standard Test Method for Air Content of Freshly Mixed Concrete by Pressure Method	QEL Main Laboratory
Concrete	ASTM C232	Bleeding of concrete	QEL Main Laboratory
Concrete	ASTM C403 / C403M	Standard Test Method for Time of Setting of Concrete by Penetration Resistance	QEL Main Laboratory
Concrete	ASTM C494 Cl 18.2, 18.4	Chemical Admixture for concrete 18.2 Residue by Oven Drying (Liquid Admixtures): 18.4 Relative Density (Specific Gravity) (Liquid Admixtures):	QEL Main Laboratory
Concrete	ASTM C597	Standard Test Method of Pulse Velocity Through Concrete	Main Laboratory
Concrete	ASTM C617 / C617M	Standard Test Method for Capping Cylindrical Concrete Specimens	QEL Main Laboratory
Concrete	ASTM C876	Standard Test Method for Corrosion Potentials of Uncoated Resistance Steel in Concrete	QEL Main Laboratory
Concrete	ASTM C900	Standard Test Method for Pull Out Strength of Harden Concrete	QEL Main Laboratory
Concrete	ASTM C1064 / C1064	Standard Test Method for Temperature of Freshly Mixed Hydraulic Cement Concrete	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Concrete	ASTM C1202	Standard Test Method for Electrical Indication of Concrete Ability to Resist to Chloride Ion Penetration	QEL Main Laboratory
Concrete	ASTM C1231 / C1231M	Standard Practice for Use of Unbounded Caps in the Determination of Compressive Strength of Hardened Concrete	QEL Main Laboratory
Concrete	ASTM C1385M	Sampling of Shotcrete ASTM C1385	QEL Main Laboratory
Concrete	ASTM C1611 / C1611M	Slump Flow test for self-consolidated concrete	QEL Main Laboratory
Concrete	ASTM C1621	Passing Ability for self-consolidating Concrete by J-Ring	QEL Main Laboratory
Concrete	ASTM C1688	Density Determination of Pervious Concrete	QEL Main Laboratory
Concrete	ASTM C1701	Infiltration Test for In place Pervious Concrete	QEL Main Laboratory
Concrete	BS 1881-102	Method of Determination of Slump	QEL Main Laboratory
Concrete	BS 1881-108	Method for Making Test Cubes from Fresh Concrete	QEL Main Laboratory
Concrete	BS 1881-116	Method for the Determination of Compressive Strength of Concrete Cube	QEL Main Laboratory
Concrete	BS 1881-118	Determination of Flexural Strength of Beams	QEL Main Laboratory
Concrete	BS 1881-120	Method for the Determination of Compressive Strength of Concrete Cores	QEL Main Laboratory
Concrete	BS 1881-122	Testing concrete Part 122: Method for determination of water absorption	QEL Main Laboratory
Concrete	BS 1881-208	Initial Surface Absorption of Hardened Concrete	QEL Main Laboratory
Concrete	BS 6717-1	Precast, Unreinforced Concrete Paving Blocks	QEL Main Laboratory
Concrete	BS EN 1338	Concrete paving blocks. Requirements and test methods (Cl. 5.3.4) Abrasion Resistance of Paving Block	QEL Main Laboratory
Concrete	BS EN 1338	Concrete paving blocks. Requirements and test methods (Cl. 5.3.5) Skid Resistance of Paving Block	QEL Main Laboratory
Concrete	BS EN 12350-1	Testing of Fresh Concrete-Sampling & Temperature	QEL Main Laboratory
Concrete	BS EN 12350-2	Testing Fresh Concrete –Slump Test	QEL Main Laboratory
Concrete	BS EN 12350-5	Flow Table Test	QEL Main Laboratory
Concrete	BS EN 12350-9	V Funnel Test for Self Compacting Concrete	QEL Main Laboratory
Concrete	BSEN 12350-10	L-Box for self-compacting concrete	QEL Main Laboratory
Concrete	BS EN 12390-1	Testing Hardened Concrete, Shape, Dimension and Other Requirements	QEL Main Laboratory
Concrete	BS EN 12390-2	Making & Curing for Strength Test	QEL Main Laboratory
Concrete	BS EN 12390-3	Compressive Strength of Test Specimens	QEL Main Laboratory

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Concrete	BS EN 12390-5	Testing hardened concrete. Flexural strength of test specimens	Main Laboratory
Concrete	BS EN 12390-6	Tensile Splitting Strength of Test Specimens	QEL Main Laboratory
Concrete	BS EN 12390 Part-7, CL 5.1.2	Density of Hardened Concrete	QEL Main Laboratory
Concrete	BS EN 12390-8	Water Penetration of Hardened Concrete	QEL Main Laboratory
Concrete	BS EN 12504-1	Cored Specimens: Taking, Examining & Testing in Compression.	QEL Main Laboratory
Concrete	BS EN 12504-2	Testing Hardened Concrete in Structures. Non Destructive Testing- Determination of Rebound Number	QEL Main Laboratory
Concrete	DIN-1048	Permeability Test	QEL Main Laboratory
Concrete	IWPT 146 - (Robin Summers Specification Appendix A)	Capillary Index of Concrete	QEL Main Laboratory
Environmental Testing	APHA/AWWA 2130 B	Turbidity	QEL Main Laboratory
Environmental Testing	APHA/AWWA 2320-B	Phenolphthalein Alkalinity	QEL Main Laboratory
Environmental Testing	APHA/AWWA 2320-B	Total Alkalinity	QEL Main Laboratory
Environmental Testing	APHA 2340-C	Total Hardness-EDTA Method	QEL Main Laboratory
Environmental Testing	APHA 2510-B	Electrical Conductivity	QEL Main Laboratory
Environmental Testing	APHA/AWWA 2540 B	Total Solids	QEL Main Laboratory
Environmental Testing	APHA 2540-C	Total Dissolved Solids	QEL Main Laboratory
Environmental Testing	APHA 2540-D	Total Suspended Solids	QEL Main Laboratory
Environmental Testing	APHA/AWWA 2540 D	Total Suspended Solids	QEL Main Laboratory
Environmental Testing	APHA/AWWA 2540F	Settleable Solids	QEL Main Laboratory
Environmental Testing	APHA, SM, 2710 D, 2005	Sludge Volume	QEL Main Laboratory
Environmental Testing	APHA, SM, 2710 D, 2005	Sludge Volume Index	QEL Main Laboratory
Environmental Testing	APHA, SM, 2710 D, 2005	Sludge Weight	QEL Main Laboratory
Environmental Testing	APHA 3500 Ca- B	Calcium-EDTA Titration Method	QEL Main Laboratory
Environmental Testing	APHA 3500 Mg- B	Magnesium- Calculation Method	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Environmental Testing	APHA 4500 Cl- B	Chloride- Argentometric Method	QEL Main Laboratory
Environmental Testing	APHA/AWWA 4500-CIG	Total Chlorine	QEL Main Laboratory
Environmental Testing	APHA/AWWA 4500-CII	Residual Chlorine	QEL Main Laboratory
Environmental Testing	APHA 4500- H+- B	pH Value- Electrometric Method	QEL Main Laboratory
Environmental Testing	APHA/AWWA 4500 N	Total Kjeldahl Nitrogen	QEL Main Laboratory
Environmental Testing	APHA/AWWA 4500 NO3-D	Nitrate	QEL Main Laboratory
Environmental Testing	APHA/AWWA 4500- SO4	Sulphate	QEL Main Laboratory
Environmental Testing	APHA 4500- SO24 –E	Sulphate-Turbidity Method	QEL Main Laboratory
Environmental Testing	APHA/AWWA 4500-S2 F	Sulphide	QEL Main Laboratory
Environmental Testing	APHA 5210-B	Biochemical Oxygen Demand	QEL Main Laboratory
Environmental Testing	APHA 5220-D	Chemical Oxygen Demand	QEL Main Laboratory
Environmental Testing	APHA/AWWA 5520 D	Oil & Grease	QEL Main Laboratory
Environmental Testing	APHA/AWWA 5310-B or C	Total Organic Carbon	QEL Main Laboratory
Environmental Testing	APHA/AWWA 9222 B & 9222 D	Total Coliforms	QEL Main Laboratory
Environmental Testing	APHA/AWWA 9222-B & Sartorius ENDO-NPS	E- Coli	QEL Main Laboratory
Environmental Testing	BS 1377-3	Chemical & Electrochemical Test of Soil	QEL Main Laboratory
Environmental Testing	BS 1377-3	Chemical & Electrochemical Test of Soil	QEL Main Laboratory
Environmental Testing	HACH Method	Cadmium	QEL Main Laboratory
Environmental Testing	HACH Method	Iron	QEL Main Laboratory
Environmental Testing	HACH Method	Silica	QEL Main Laboratory
Environmental Testing	HACH Method 8009	Zinc	QEL Main Laboratory
Environmental Testing	HACH 8027	Cyanide	QEL Main Laboratory
Environmental Testing	HACH Method 8033	Lead	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Environmental Testing	HACH 8047	Phenol	QEL Main Laboratory
Environmental Testing	HACH Method 8049	Potassium	QEL Main Laboratory
Environmental Testing	HACH Method 8143	Copper	QEL Main Laboratory
Environmental Testing	HACH Method 8150	Nickel	QEL Main Laboratory
Environmental Testing	HACH 8326	Aluminum	QEL Main Laboratory
Environmental Testing	QEL SOP/OPN/10	Microscopic Examination	QEL Main Laboratory
Geotechnical	ASTM D2435 / D2435 M	Standard Test Method for One Dimensional Consolidation Properties of Soil Using Incremental Loading.	QEL Main Laboratory
GeoTech	ASTM G57	Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four- Electrode Method	Street 50 Lab
GeoTech	BS 1377-9 CL 4.1	Methods of test for Soils for civil engineering purposes — Part 9: In-situ tests CL 4.1 Determination of the vertical deformation and strength characteristics of soil by the plate loading test	Street 50 Lab
GeoTech	BS 5930 CL 25.5	Code of Practice for Site Investigation CL 25.5 Packer Test	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D412	Tensile Strength of Vulcanized Rubber & Thermoplastic Elastomers	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D570	Water Absorption of Plastics	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D638	Determination of Tensile Properties of Plastics	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D751	Textiles Puncture Resistance	QEL Main Laboratory
Geotextiles & Waterproofing Test	ASTM D1000	Pressure-Sensitive Adhesion to Primed Concrete	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D1004	Initial Tear Resistance of Plastic Film and Sheeting	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D2240	Determination of Durometer Hardness	QEL Main Laboratory

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Geotextiles & Waterproofing Tests	ASTM D3767	Dimensions Measurement of Rubber	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D3787	Textiles Bursting Strength	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D4533	Trapezoid Tearing Strength of Geotextiles.	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D5199	Determination of Thickness of Geosynthetics	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D5034	Breaking Strength and Elongation of Textile Fabrics (Grab Test)	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM D5035	Breaking Strength and Elongation of Textile (Strip Test)	QEL Main Laboratory
Geotextiles & Waterproofing Tests	ASTM E154	Puncture Resistance of Ground Covers	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN ISO 527-3	Determination of Tensile Properties of Plastics	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN 1849-1	Determination of Thickness and Mass per unit area of Bitumen sheets for roof waterproofing	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN 1849-2	Determination of Thickness and Mass per unit area of Plastic and Rubber	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN ISO 5084	Determination of Thickness of Textiles	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN ISO 10319	Tensile Strength & Elongation at Rupture	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN ISO 11058	Geotextiles and geotextile-related products. Determination of water permeability characteristics normal to the plane, without load	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN 12127	Determination of Mass Per Unit Area (Weight)	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN ISO 12236	Static Puncture Test (CBR Test)	QEL Main Laboratory

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Geotextiles & Waterproofing Tests	BS EN ISO 12956	Pore Size	QEL Main Laboratory
Geotextiles & Waterproofing Tests	BS EN ISO 13433	Dynamic Perforation Test (Cone Drop Test)	QEL Main Laboratory
GRP Pipe Test	ASTM D2122, ASTM D3567	Dimensions	QEL Main Laboratory
GRP Pipe Test	ASTM D2563	Visual Inspection	QEL Main Laboratory
GRP Pipe Test	ASTM D2583	Hardness	QEL Main Laboratory
GRP Pipe Test	ASTM D3681	Strain Corrosion	QEL Main Laboratory
Grout	ASTM C109	Compressive strength of cube of hydraulic cement mortar	QEL Main Laboratory
Grout	BSEN 445 Cl 4.3	Grout for prestressing tendons — Test methods 4.3 Fluidity test	QEL Main Laboratory
Grout	BSEN 445 Cl 4.5	Grout for prestressing tendons — Test methods 4.5 Wick-induced test and Bleeding test Cl. 4.5.4	QEL Main Laboratory
Grout	BSEN 445 Cl 4.6	Grout for prestressing tendons — Test methods 4.6 Compressive strength test	QEL Main Laboratory
Grout	BSEN 445 Cl 4.7	Grout for prestressing tendons — Test methods 4.7 Density test.	QEL Main Laboratory
Grout	BS 6319-3	Modulus of elasticity in flexure and flexural strength of grout Part 3: Methods for measurement of modulus of elasticity in flexure and flexural strength	QEL Main Laboratory
Masonry	ASTM C140 / C140M Cl 8	Standard Test Method for Sampling and Testing Concrete Masonry Units & Related Units	QEL Main Laboratory
Masonry	BS 6073-1 Appendix A & B	Specification for Precast Concrete Masonry Units	QEL Main Laboratory
Masonry	BS 6073-2	Specification for Precast Concrete Masonry Units	QEL Main Laboratory
Masonry	BS 6717	Specification for Precast Concrete Masonry Units	QEL Main Laboratory
Masonry	BS EN 771-3	Specification for Masonry Units	QEL Main Laboratory
Masonry	BS EN 772-1	Determination of Compressive Strength of Masonry Units	QEL Main Laboratory
Masonry	BS EN 772-11	Determination of Water Absorption of Aggregate Concrete Autoclaved Aerated Concrete, Manufactured Stone & Natural Stone Masonry Units Due to Capillary Action and the Internal Rate of Water Absorption of Clay Masonry Units.	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Masonry	BS EN 1338 Annex E & F	Requirements and Test Method for Concrete Paving Blocks	QEL Main Laboratory
Masonry	BS EN 1339 Annex E & F	Concrete Paving Flags and Test Methods	QEL Main Laboratory
Masonry	BS EN 1340 Annex C, E & F	Determination of Water Absorption of Paving Flags.	QEL Main Laboratory
NDT	ASTM C805 / C805	Standard Test Method for Rebound Number of Hardened Concrete	QEL Main Laboratory
NDT	ASTM D4787	Standard Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete	QEL Main Laboratory
NDT	ASTM D4541 Method B	Standard Test Method for Pull off Strength of Coatings Using Portable Adhesion Tester - Method B	QEL Main Laboratory
NDT	ASTM D4945	Standard Test Method for High Strain Dynamic Testing of Deep Foundations	QEL Main Laboratory
NDT	ASTM D5162	Standard Practice for Discontinuity Testing of Nonconductive Protective Coating on Metallic Substance	QEL Main Laboratory
NDT	ASTM D5882	Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations	QEL Main Laboratory
NDT	ASTM D6132	Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage	QEL Main Laboratory
NDT	ASTM D6760	Standard Test Method for Integrity Testing of Concrete Deep Foundations by Ultrasonic Cross hole Testing	QEL Main Laboratory
NDT	ASTM E 965	Standard Test Method for Measuring Pavement Macrottexture Depth Using a Volumetric Technique.	Main Laboratory
NDT	ASTM E1703/E1703M	Measuring Rut-Depth of Pavement Surfaces Using a Straightedge	QEL Main Laboratory
NDT	BS 1881-204	Concrete Cover Determination	QEL Main Laboratory
NDT	BS EN 10002	Tensile Testing of Metallic Materials	QEL Main Laboratory
NDT	BS EN 12504-4	Testing Concrete – Determination of Ultrasonic Pulse Velocity	QEL Main Laboratory
NDT	Microscope Manual	Crack Measurement Microscope	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D1005	Measurement of Dry-Film Thickness of Organic Coatings	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D1212	Measurement of Wet Film Thickness of Organic Coatings	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Paints & Varnishes Tests	ASTM D1475	Density of Liquid Coatings, Inks & paints	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D1640	Drying, Curing, or Film Formation of Organic Coatings at Room Temperature	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D1647	Alkali Resistance	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D2196	Rheological Properties of Non-Newtonian Materials by Rotational Viscometer	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D2369	Determination Volatile Content of Coatings	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D2486	Scrub Resistance of Wall Paints	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D3723	Pigment Content of Water-Emulsion Paints by Low-Temperature Ashing	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser	QEL Main Laboratory
Paints & Varnishes Tests	ASTM D5401	Determination of resistance to liquids	QEL Main Laboratory
Paints & Varnishes Tests	BS EN ISO 2409	Cross-cut Tests of Paints and Varnishes	QEL Main Laboratory
Pipe	BS ISO 13953	Polyethylene (PE) pipes and fittings - Determination of the tensile strength and failure mode of test pieces from a butt-fused joint	QEL Main Laboratory
Road Marking Tests	ASTM D402/D402M	Distillation of Cutback Asphalt	QEL Main Laboratory
Road Marking Tests	ASTM E1710	Measurement of Retro-reflectivity of pavement marking materials	QEL Main Laboratory
Road Marking Test	AASHTO T250	Glass Bead Content of Thermoplastic Material	QEL Main Laboratory
Road Marking Test	BS 2000-58	Softening Point (Ring and Ball Method) of Thermoplastic Material	QEL Main Laboratory
Road Marking Test	BS 3262 Part 1–Ap. D	Combined Gradation of Material	QEL Main Laboratory
Road Marking Test	BS 3262 Part 1–Ap. D	Glass Bead Content of Thermoplastic Material	QEL Main Laboratory

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Road Marking Test	BS 3262 Part 1–Ap. H	Flow Resistance of Thermoplastic Material	QEL Main Laboratory
Road Marking Test	BS 3262 Part 1–Ap. J	Skid resistance - Ap.J	QEL Main Laboratory
Road Marking Test	BS 3262 Part 3–Ap. C	Determination of Density of Thermoplastic Material	QEL Main Laboratory
Road Marking Test	BS 6088 Appendix B	Particle Size Distribution of Glass Beads	QEL Main Laboratory
Road Marking Test	BS EN 1436 Annex A & B	Retro reflectivity of pavement marking material - Annex A & B	QEL Main Laboratory
Rock	ASTM D4543	Standard Practice for Preparing Rock Core as Cylindrical Specimens& Verifying conformance to Dimensional and Shape Tolerance.	QEL Main Laboratory
Rock	ASTM D5731	Standard Test Method for the Determination of Point Load Index of Rock	QEL Main Laboratory
Rock	ASTM D7012	Standard Test Method for the Determination of Compressive Strength and Elastic Moduli of Intact Rock Core Specimen Under Varying Stress and Temperature	QEL Main Laboratory
Rock	BS EN 13383-1 CL 4, 5.2, 5.3, 5.4, 5.6, 6.3	Drop Test	QEL Main Laboratory
Soil	ASTM C 702	Standard Practice for Reducing Samples of Aggregate to Testing Size	QEL Main Laboratory
Soil	ASTM D1140	Standards Test Method for Determining the Amount of Material Finer Than 75 Micron Sieves in Solid by Washing	QEL Main Laboratory
Soil	ASTM D1196 / D1196M	Standard Test Method for Non Repetitive Static Plate Load Tests of Soil & Flexible Pavement Components	QEL Main Laboratory
Soil	ASTM D1556 / D1556M	Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method	QEL Main Laboratory
Soil	ASTM D1557	Standard Test Method for Laboratory Compaction Characteristics of Soil	QEL Main Laboratory
Soil	ASTM D1883	Standard Test Method for California Bearing Ratio of Laboratory Compacted Soils	QEL Main Laboratory
Soil	ASTM D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass1	QEL Main Lab
Soil	ASTM D2419	Standard Test Method for Sand Equivalent Value of Soil & Fine Aggregate	QEL Main Laboratory

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Soil	ASTM D2922	Standard Test Method for Density of Soil-Aggregate in Place by Nuclear Methods	QEL Main Laboratory
Soil	ASTM D4253	Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	QEL Main Laboratory
Soil	ASTM D4318	Standard Test Method of Liquid Limit, Plastic Limit & Plasticity Index of Soils	QEL Main Laboratory
Soil	ASTM D4429	Standard Test Method for CBR in Place	QEL Main Laboratory
Soil	ASTM D4718	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles	QEL Main Laboratory
Soil	ASTM D4944	In Place Moisture Content (Calcium Carbide Tester)	QEL Main Laboratory
Soil	ASTM D6913	Standard Test Method for Particle Size Distribution of Soils Using Sieve Analysis	QEL Main Laboratory
Soil	ASTM D6938	Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	QEL Main Laboratory
Soil	BS 1377-2 Cl 4	Determination of Liquid Limit of Soil	QEL Main Laboratory
Soil	BS 1377-2 Cl 5	Determination of Plastic Limit & Plasticity Index of Soil	QEL Main Laboratory
Soil	BS 1377-2 Cl 8	Determination of Particle Density	QEL Main Laboratory
Soil	BS 1377-2 Cl 9	Determination of Particle Size Distribution	QEL Main Laboratory
Soil	BS 1377-4 Cl 3	Determination of Dry Density- Moisture Content Relationship of Soil	QEL Main Laboratory
Soil	BS 1377-4 Cl 7	Determination of CBR	QEL Main Laboratory
Soil	BS 1377-9 Cl 4.3	Methods of test for Soils for civil engineering purposes — Part 9: In-situ tests CL 4.3 Determination of In Situ California Bearing Ratio	QEL Main Laboratory
Soil	BS 1924.2Part 4.2	Method of Testing for Cement Stabilized & Lime Stabilized Material Part 4.2 Determination of Compressive Strength of Cubic Specimens	QEL Main Laboratory
Soil/Rock	AASHTO T- 304.11 Method A- Standard Grade Sample	Standard Method of Test for Un-compacted Void content of Fine aggregate	QEL Main Laboratory
Soil/Rock	ASTM D6951 / D6951 M	Standard Method for use of the Dynamic Cone Penetrometer in Shallow Pavement Application	QEL Main Laboratory
Steel	ASME BPVC IX QW- 183, QW- 184, QW- 472.1, QW-472.4	ASME Boiler & Pressure Vessel Code Section IX: Welding & Brazing Qualifications Macro Examination (QW-183, QW-184), Etching (QW-472.1, QW-472.4)	QEL Main Laboratory
Steel	ASTM A370	Standard Test Method & Definition of Mechanical Testing of Steel Products	QEL Main Laboratory

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Category	Standard/ Method No./ Date	Standard/ Method Title & Section	Location/ Facility
Steel	ASTM A615 / 615M	Standard Test Method for Deformed and Plain Carbon Steel Bars for Concrete Reinforcement	QEL Main Laboratory
Steel	ASTM A931	Tension Testing of Wire Ropes & Strands	QEL Main Laboratory
Steel	ASTM A1061	Testing Multiwire Steel Prestressing Strand	QEL Main Laboratory
Steel	ASTM D4414	Wet Film Thickness (WFT) by Notch gauge	QEL Main Laboratory
Steel	ASTM E23	Standard Test Method for Notched Bar Impact Testing of Metallic Materials.	QEL Main Laboratory
Steel	ASTM E165 / ASME- Sec.v Article 6	Dye penetration test	QEL Main Laboratory
Steel	ASTM E709 / ASME- Sec.V Article 7	Magnetic Particle Inspection	QEL Main Laboratory
Steel	ASTM G62	Standard Test Method for Holiday Detection of Pipe Line coating	QEL Main Laboratory
Steel	BS 131	Notched Bar Test. Izod Impact Test of Materials	QEL Main Laboratory
Steel	BS 4449	Steel for Reinforcement of Concrete. Weldable Reinforcing Steel, Bar Coil & Decoil Product Specification	QEL Main Laboratory
Steel	BS EN 124	Load Resistance Test of Manhole covers	QEL Main Laboratory
Steel	BS EN 10045-1	Charpy Impact Test on Metallic Materials	QEL Main Laboratory
Steel	BSEN 13197 Annex C	Wet Film Thickness (WFT) by Notch gauge	QEL Main Laboratory
Steel	BS EN 15630-3	Tensile Test of High Tensile Steel Wire Strands	QEL Main Laboratory
Steel	BSEN ISO 15630-1 Cl 5	Reinforcement bars, wire rods and wires Cl 5 Tensile strength	QEL Main Laboratory
Steel	BSEN ISO 15630-1 Cl 6 & 7	Reinforcing bars, wire rod & wires Cl 6 Bend Test, Cl 7 Rebend Test	QEL Main Laboratory
Tile	BSEN 13748-1 Cl 5.5, Cl 5.8	Compressive Strength & Water Absorption of Terrazzo Tile 5.5 Breaking strength and breaking load, 5.8 Water absorption	QEL Main Laboratory
Water Leakage	AAMA 501.2	Quality Assurance and Diagnostic Water Leakage Field Check of Installed Store Fronts, Curtains walls and Sloped Glazing Systems	Field Test

## Location 2

Concrete	BS EN 12390-2	Testing hardened concrete Part 2: Making and curing specimens for strength tests	QEL Al Khor Site Laboratory
Concrete	BS EN 12390-3	Testing hardened concrete Part 3: Compressive strength of test specimens	QEL Al Khor Site Laboratory
Concrete	BS EN 12390-7	Testing hardened concrete Part 7: Density of hardened concrete	QEL Al Khor Site Laboratory

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