ACCREDITATION CERTIFICATE

LB-TEST-002

Emirates International Accreditation Centre

has accredited

AL FUTTAIM ELEMENT MATERIALS TECHNOLOGY DUBAI LLC

Plot 598-221 | Dubai Investment Park |, Jebel Ali

Dubai | United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 06-07-2026 to 12-02-2029

Initial Accreditation Date: 13-02-2005

Amina Ahmed Mohammed

CHIEF EXECUTIVE OFFICER

مـركـز الإمـارات الـعـالـمـي لـلاعـتـمـاد
Emirates International Accreditation Centre

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Al Futtaim Element Materials Technology Dubai LLC

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Date: 06-07-2026

Accreditation History		
Issue no.	**Details**	**Date**

Construction Materials Testing

21	Reissued to reflect: 1. accreditation renewal 2. scope extension	06-07-2026
20	Reissued due to scope extension (Add Pile testing)	03-03-2026
19	Certificate validity was extended for 6 months from 13-02-2026 up to 12-08-2026	13-02-2026
18	Re-issued due to modification in test method for some tests	03-10-20205
17	Re-issued due to the Extension in Scope with some changes in the Test Methods	19-08-2024
16	Renewal of the accreditation and changes in some test methods	13-02-2024
15	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
14	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023
13	Extension inscope	08-11-2022

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Accreditation History		
Issue no.	**Details**	**Date**

Construction Materials Testing

12	Renewal of accreditation and reduction in scope	16-09-2020
11	Extension in scope (adding 2 tests under Hardened Concrete)	10/04/2019
10	First issuance under the name of EIAC (which was formerly known as DAC)	01/10/2018

Air Quality Monitoring Testing

13	Reissued to reflect the accreditation renewal	06-07-2026
12	Certificate validity was extended for 6 months from 13-02-2026 up to 12-08-2026	13-02-2026
11	Re-issued due to modification in test method for some tests	03-10-2025
10	Re-issued due to the some changes in the Test Methods/Test Name	19-08-2024
09	Renewal of the accreditation and changes in some test methods	13-02-2024
08	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
07	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023

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Air Quality Monitoring Testing

06	Extension in scope	08-11-2022
05	Renewal of accreditation	16/09/2020
04	Reduction in the scope by removing sampling	10/04/2019
03	First issuance under the name of EIAC (which formally was known as DAC)	01/10/2018

Environmental Testing

20	Reissued to reflect: 1. accreditation renewal 2. scope extension	06-07-2026
19	Certificate validity was extended for 6 months from 13-02-2026 up to 12-08-2026	13-02-2026
18	Re-issued due to modification in test method for some tests	03-10-20205
17	Re-issued due to the Extension in Scope with some changes in the Test Methods	19-08-2024

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Environmental Testing

16	Renewal of the accreditation and voluntary reduction in scope (Remove some Microbiological tests)	13-02-2024
15	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
14	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023
13	Extension in scope	08-11-2022
12	Renewal of accreditation, extension in scope (add Total Dissolved Solids BS 1377 Part 3) and voluntary reduction (remove Enterobacteriacaea test)	16-09-2020
11	Extension in scope	05-04-2020
10	Extension in scope	10-04-2019

Metallurgy Testing

11	Reissued to reflect: 1. accreditation renewal 2. scope extension	06-07-2026

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Issue no.	**Details**	**Date**

Metallurgy Testing

10	Certificate validity was extended for 6 months from 13-02-2026 up to 12-08-2026	13-02-2026
09	Re-issued due to extension in scope and modification in test method for some tests	03-10-2025
08	Re-issued due to the some changes in the Test Methods/Test Name	19-08-2024
07	Renewal of the accreditation	13-02-2024
06	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
05	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023
04	Extension in scope and slight changes in some Test methods	08-11-2022
03	Renewal of accreditation	16/09/2020
02	First issuance under the name of EIAC (Which was formerly known as DAC)	01/10/2018

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Issue no.	**Details**	**Date**

Food Testing

16	Reissued to reflect: 1. accreditation renewal 2. scope extension 3. modification in test method for some tests	06-07-2026
15	Certificate validity was extended for 6 months from 13-02-2026 up to 12-08-2026	13-02-2026
14	Re-issued due to modification in test method for some tests	03-10-20205
13	Re-issued due to the some changes in the Test Methods/Test Name	19-08-2024
12	Renewal of the accreditation and voluntary reduction in scope (Remove some Microbiological tests)	13-02-2024
11	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
10	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023
09	Voluntary reduction and extention in scope	21-03-2022
08	Reduction in scope (remove CCFRA manual reference for microbiology and chemistry food testing)	21-03-2022

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Food Testing

07	Renewal of accreditation and voluntary reduction (Remove Pseudomonas species& Pseudomonas Aeruginosa)	16-09-2020
06	Extension in scope	05-04-2020
05	First issuance under the name of EIAC (Which was formerly known as DAC)	1-10-2018

Construction Materials-Green Building Testing

08	Reissued to reflect the accreditation renewal	06-07-2026
07	Certificate validity was extended for 6 months from 13-02-2026 up to 12-08-2026	13-02-2026
06	Re-issued due to the some changes in the Test Methods/Test Name	19-08-2024
05	Renewal of the accreditation	13-02-2024
04	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
03	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023

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Construction Materials-Green Building Testing

02	Renewal of accreditation and reduction in scope (remove test: Determination of water content in Paint)	16/09/2020
01	Granted accreditation from EIAC	05/04/2020

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Issue no.: 21 **Date: 06-07-2026** **Valid to: 12-02-2029**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes - Classification tests and determination of geotechnical properties (Determination of particle size distribution)	BS 1377 Part 2 Clause 10 BS EN 17892 Part 4 Clause 5.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Caluse 11.5: Compaction method using 4.5 kg rammer with 1 L mould 25 Figure 7 — 4.5 kg rammer for compaction test Caluse 11.6: Method	BS 1377 Part 2 Clause 11.5 & Clause 11.6

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Calause 15: Determination of California Bearing Ratio (CBR)	BS 1377 Part 2 Clause 15
Mechanical/ Physical	Soil	Methods for test for soils for civil engineering purposes. In-situ tests (Sand replacement method suitable for fine, medium and coarse grained soils (large pouring cylinder method))	BS 1377 Part 9 Clause 2.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Standard Test Method for Particle-Size Analysis of Soils	ASTM D422
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Clause 11.3: v Clause 11.4: Compaction method using 2.5 kg rammer with CBR mould	BS 1377 Part 2 Clause 11.3 & Clause 11.4
Mechanical/ Physical	Soil	Standard Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Clause 5: Determination of liquid limit.	BS 1377 Part 2 Clause 5 ISO 17892 Part 12+A1 Clause 5.3 & 5.4
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Clause 6: Determination	BS 1377-2 Clause 6 ISO 17892-12+A1 Clause 5.5 & Clause 6.5

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Clause 4: Determination of water content	BS 1377 Part 2 Clause 4.1 BS EN 17892 Part 1+A1
Mechanical/Physical	Soil	Standard Test Method for Slump of Hydraulic-Cement Concrete	ASTM C143/143M
Mechanical/Physical	Soil	Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft^3) (2,700kN-m/m^3)	ASTM D1557

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/Physical	Soil	Standard Test Method for Density and Unit Weight of Soil in Place by Sand cone Method	ASTM D1556/D1556M
Mechanical/Physical	Soil	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 D1196/D1196M
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete. Depth of penetration of water under pressure	BS EN 12390 Part 8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Hardened Concrete	Testing concrete Method for determination of compressive strength of concrete cubes	BS 1881 Part 116
Mechanical/ Physical	Hardened Concrete	Recommendations for the determination of the initial surface absorption of concrete	BS 1881 Part 208
Mechanical/ Physical	Hardened Concrete	Determination of water absorption on hardened concrete	BS 1881 Part 122
Mechanical/ Physical	Hardened Concrete	Testing concrete Part 111: Method of normal curing of test specimens (20°C method)	BS 1881 Part 111

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Hardened Concrete	Testing concrete Part 114: Methods for determination of density of hardened concrete	BS 1881 Part 114
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete Part 2: Making and curing specimens for strength tests	BS EN 12390 Part 2
Mechanical/ Physical	Hardened Concrete	Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory	ASTM C192 / C192M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete Part 1: Shape, dimensions and other requirements for specimens and moulds	BS EN 12390 Part 1
Mechanical/ Physical	Hardened Concrete	Testing Hardened Concrete Part 3: Compressive strength of test specimens	BS EN 12390 Part 3
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete Part 5: Flexural strength of test specimens	BS EN 12390 Part 5
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete Part 7: Density of hardened concrete	BS EN 12390 Part 7

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Hardened Concrete	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	ASTM C39 / C39M
Mechanical/ Physical	Hardened Concrete	Testing concrete in structures. Cored specimens Part 1: Taking, examining and testing in compression	BS EN 12504 Part 1
Mechanical/ Physical	Concrete piles	Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations	ASTM D5882
Mechanical/ Physical	Concrete	Standard Test Method for Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469/C469M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Fresh Concrete	Testing concrete Part 102: Method for determination of slump	BS 1881 Part 102
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 2: Slump test	BS EN 12350 Part 2
Mechanical/ Physical	Fresh Concrete	Testing concrete Part 106: Methods for determination of air content of fresh concrete	BS 1881-106:1983
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 7: Air content. Pressure methods	BS EN 12350 Part 7
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 1: Sampling	BS EN 12350 Part 1
Mechanical/ Physical	Fresh Concrete	Standard practice for Sampling of Freshly mixed Concrete	ASTM C172

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 6: Density	BS EN 12350 Part 6
Mechanical/ Physical	Fresh Concrete	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	ASTM C138 / C138M
Mechanical/ Physical	Fresh Concrete	Standard Test Method for Bleeding of Concrete	ASTM C232 / C232M
Mechanical/ Physical	Fresh Concrete	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C1064/ C1064M
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 5: Flow table test	BS EN 12350 Part 5
Mechanical/ Physical	Fresh Concrete	Standard Test Method for Slump Flow of Self-Consolidating Concrete	ASTM C1611 / C1611M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 4: Degree of compactability	BS EN 12350 Part 4
Mechanical/ Physical	Fresh Concrete	Testing concrete Part 108: Method for making test cubes from fresh concrete	BS 1881 Part 108
Mechanical/ Physical	Aggregate	Testing Aggregates Part 2. Methods of determination of density - for aggregates all larger than 10mm	BS 812 Part 2 Clause 5.3
Mechanical/ Physical	Aggregate	Standard Practice for Sampling Aggregates	ASTM D75/75M
Mechanical/ Physical	Aggregate	Testing aggregate Part 102: Methods for Sampling Tests for general properties of aggregates	BS 812 Part 102

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for general properties of aggregates Part 1: Methods for sampling	BS EN 932 Part 1
Mechanical/ Physical	Aggregate	Testing aggregates Part 2: Methods for determination of density Clause 5.4: Particle density and water absorption of aggregate between 40mm and 5mm	BS 812 Part 2 Clause 5.4

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Testing aggregates Part 2: Methods for determination of density Clause 5.5: Particle density and water absorption (10mm aggregate & smaller)	BS 812 Part 2 Clause 5.5
Mechanical/ Physical	Aggregate	Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127
Mechanical/ Physical	Aggregate	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C128

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 1: Determination of particle size distribution. Sieving method	BS EN 933 Part 1
Mechanical/ Physical	Aggregate	Tests for mechanical and physical properties of aggregates Part 6: Determination of particle density and water absorption - wire basket method for aggregate particles passing the 63mm test sieve and retained on the 31.5mm test sieve	BS EN 1097 Part 6 Clause7

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for mechanical and physical properties of aggregates Part 6: Determination of Particle Density and Water Absorption- pyknometer method for aggregate particles passing the 31.5mm test sieve and retained on the	BS EN 1097 Part 6 Clause 8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for mechanical and physical properties of aggregates Part 6: Determination of Particle Density and Water Absorption- pyknometer method for aggregate particles passing the 4mm test sieve and retained on the 0.063mm test sieve	BS EN 1097 Part 6 Clause 9
Mechanical/ Physical	Aggregate	Testing aggregates Part 109: Methods for determination of moisture content (drying oven)	BS 812 Part 109

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Testing aggregates Part 103: Method for determination of particle size distribution Section 103.1 Sieve tests	BS 812 Part 103 Section 103.1
Mechanical/ Physical	Aggregate	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	ASTM C136/ C136M
Mechanical/ Physical	Aggregate	Standard Test Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Testing Aggregates Part 110: Methods for determination of aggregate crushing value (ACV)	BS 812 Part 110
Mechanical/ Physical	Aggregate	Testing Aggregates Part 111: Determination of ten percent fines value (TFV)	BS 812 Part 111
Mechanical/ Physical	Aggregate	Testing Aggregates Part 112: Methods for determination of aggregate impact value (AIV)	BS 812 Part 112

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for mechanical and physical properties of aggregates Part 5: Determination of the water content by drying in a ventilated oven	BS EN 1097 Part 5
Mechanical/ Physical	Aggregate	Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying	ASTM C566
Mechanical/ Physical	Aggregate	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 8: Assessment of fines - sand equivalent test	BS EN 933 Part 8 + A1
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 3: Determination of particle shape - Flakiness index	BS EN 933 Part 3
Mechanical/ Physical	Aggregate	Testing aggregates Part 105: Methods for determination of particle shape Section 105.1 Flakiness index	BS 812 Part 105 Section 105.1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 4: Determination of particle shape - Shape index	BS EN 933 Part 4
Mechanical/ Physical	Aggregate	Testing aggregates Part 105: Methods for determination of particle shape Section 105.2: Elongation index of coarse aggregate	BS 812 Part 105 Section 105.2
Mechanical/ Physical	Aggregate	Standard Test Method for Flat Particles, Elongated particles or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 5: Determination of percentage of crushed and broken surfaces in coarse aggregate particles	BS EN 933 Part 5
Mechanical/ Physical	Aggregate	Testing aggregates Part 106: Method for determination of shell content in coarse aggregate	BS 812 Part 106

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 7: Determination of shells content - percentage of shells in coarse aggregate	BS EN 933 Part 7
Mechanical/ Physical	Aggregate	Standard Test Method for Clay Lumps and Friable Particles in Aggregates	ASTM C142/C142M
Mechanical/ Physical	Aggregate	Standard Methods for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131/C131M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Standard Methods for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535
Mechanical/ Physical	Aggregate	Test for mechanical and physical properties of aggregates Part 2: Methods for determination of resistance o fragmentation	BS EN 1097 Part 2
Mechanical/ Physical	Aggregate	Standard Method of Test for Uncompacted Void Content of Fine Aggregate	AASHTO Designation: T304-11

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Standard Test Methods for Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture and Grading)	ASTM C1252
Mechanical/ Physical	Aggregate	Standard Practice for Reducing Samples of Aggregate to Testing Size	ASTM C702/C702M
Mechanical/ Physical	Aggregate	Test for general properties of aggregates Part 2: Methods for reducing laboratory samples	BS EN 932 Part 2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88
Mechanical/ Physical	Aggregate	Tests for thermal and weathering properties of aggregates Part 2: Magnesium Sulfate Test	BS EN 1367 Part 2
Mechanical/ Physical	Block	Measurement of dimension of pre-cast concrete Masonry Blocks	BS 6073 Part 1 Appendix A
Mechanical/ Physical	Block	Determination of Compressive Strength of pre-cast Masonry Blocks	BS 6073 Part 2 Appendix B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Block	Precast concrete paving blocks Part 1: Specification for paving blocks- Determination of compressive strength	BS 6717 Part 1 Annex B
Mechanical/ Physical	Block	Precast concrete paving blocks Part 1: Specification for paving blocks- Measurement of dimensions and plan area	BS 6717 Part 1 Annex A
Mechanical/Physical	Concrete	Heat of Hydration (Concrete Temp Monitoring)	EL-M-OP-CMT-MD009
Mechanical/Physical	Rebar	Pull Out Test	EL-M-OP-CMT-MD008

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/Physical	Masonry Blocks	Compressive, Dimension and Net and gross density (excpet for natural stone)	BS EN 772-1+A1 BS EN 772-16 BS EN 772-13
Chemical	Water	Standard Test Methods for pH of Water	ASTM D1293
Chemical	Mixing Water For Concrete	Mixing water for concrete. Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete.	BS EN 1008
Chemical	Mixing Water For Concrete	Standard Test Methods for Chloride Ion In Water	ASTM D512

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Concrete	Testing concrete. Methods for analysis of hardened concrete (Determination of Chloride content in hardened concrete)	BS 1881 Part 124 Clause 10.2
Chemical	Concrete	Testing concrete. Methods for analysis of hardened concrete (Determination of Sulphate content in hardened concrete)	BS 1881 Part 124 Clause 10.3
Chemical	Concrete	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C1202

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Concrete	Electrical indication of concrete's ability to resist chloride ion penetration	AASHTO T 277
Chemical	Concrete	Chloride Migration Test	NT Build 492
Chemical	Soil	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of the chloride content- Acid Soluble Chloride Content of Soil	BS 1377 Part 3 Clause 9.3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of the sulphate content of soil- Acid Soluble Sulphate Content of Soil	BS 1377 Part 3 Clause 7.9
Chemical	Soil	Methods of test for soils for civil engineering purposes. Chemical and electro-chemical testing. Determination of the mass loss on ignition	BS 1377 Part 3 Clause 6

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro chemical tests- Determination of the organic matter content Clause 4: Determination of the organic matter content	BS 1377 Part 3 Clause 4
Chemical	Soil	Methods of test for soils for civil engineering purposes. Part 3: Chemical and electro-chemical testing. Determination of total organic carbon	BS 1377 Part 3 Clause 5

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	Methods of test for Soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Clause 6.3: Determination of the carbonate content-Rapid titration method	BS 1377 Part 3 Clause 6.3
Chemical	Soil	Methods of test for soils for civil engineering purposes. Chemical and electro-chemical testing. Determination of water-soluble chloride content	BS 1377 Part 3 Clause 9.2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of the pH value	BS 1377-3 Clause 12
Chemical	Soil	Methods of test for soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of Resistivity- Measurement of resistivity: Wenner probe method	BS 1377-3 Clause 13

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	**Determination of** Metals by ICP MS	In-house method EL-M-OP-CH-DXB-MD112A BS ISO 11464 ISO 54321
Chemical	Aggregate	Tests for chemical properties of aggregates Part 1: Chemical analysis	BS EN 1744 Part 1
Chemical	Aggregate	Tests for chemical properties of aggregates Part 5: Determination of acid soluble chloride salts	BS EN 1744-5
Chemical	Aggregate	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	ASTM C40/C40M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Aggregate	Tests for geometrical properties of aggregates. Assessment of fines. Methylene blue test	BS EN 933 Part 9
Chemical	Preforms	**Determination of** Acetaldehyde	In-house method EL-M-OP-CH-DXB-MD417 EPA 5021A EPA 8260D
Pile Testing	Soil and Aggregates	Standard Method of Test for Determining In-Place Density and Moisture Content of Soil and Soil-Aggregate Using Complex Impedance Methodology	AASHTO T 399-22
Pile Testing	Soil and Aggregates	Moisture-Density Relations of Soils Using a 4.54-kg Rameer and a 457-mm Drop.	AASHTO T 180-25

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Total Suspended Particulate (TSP) , LOQ: 0.0 mg/m^3	US EPA Method 5 In-house method EL-M-OP-SE-MD003
Chemistry	Stack Emissions	Determination of Sulphur Dioxide (SO2) LOQ: 1 mg/m^3	US EPA 6C In-house method EL-M-OP-SE-MD001
Chemistry	Stack Emissions	Determination of Nitrogen Dioxide (NO2) LOQ: 1 mg/m^3	US EPA Method 7E In-house method EL-M-OP-SE-MD001
Chemistry	Stack Emissions	Carbon Monoxide LOQ: 1 mg/m^3	US EPA Method 10 In-house method EL-M-OP-SE-MD001
Chemistry	Stack Emissions	Carbon Dioxide LOQ: 1 mg/m^3	US EPA Method 3A In-house method EL-M-OP-SE-MD001

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Oxygen LOQ: 1 %	US EPA Method 3A In-house method EL-M-OP-SE-MD001
Chemistry	Stack Emissions	Sampling of Volatile Organic Compounds (VOC's) with subsequent analysis by an ISO/IEC 17025 accredited laboratory	US EPA Method 25A In-house method EL-M-OP-SE-MD002
Chemistry	Stack Emissions	Sampling of PAHs with subsequent analysis by an ISO/IEC 17025 accredited laboratory	ISO 11338 part 1 In-house method EL-M-OP-SE-MD003

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Sampling of Dioxins, Furans and PCB's with subsequent analysis by an ISO/IEC 17025 accredited laboratory	Sampling of Volatile Organic Compounds (VOC's) with subsequent analysis by an ISO/IEC 17025 accredited laboratory
Chemistry	Stack Emissions	Sampling of Heavy Metals including As, Bo, Cd, Co, Cr, Cr(VI), Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Mo, Se, V and Zn	Sampling of PAHs with subsequent analysis by an ISO/IEC 17025 accredited laboratory
Chemistry	Stack Emissions	Hydrogen Chloride LOQ: 0.01 mg/m^3	USEPA Method 26 EN 1191 In-house method EL-M-OP-SE-MD003

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Hydrogen Flouride LOQ: 0.01 mg/m^3	USEPA Method 13B & 26 In-house method EL-M-OP-SE-MD003
Chemistry	Stack Emissions	Hydrogen Sulphide LOQ: 0.01 mg/m^3	USEPA Method 11 In-house method EL-M-OP-SE-MD003
Chemistry	Stack Emissions	Hydrogen Cyanide LOQ: 0.1 mg/m^3	USEPA OTM 29 In-house method EL-M-OP-SE-MD003
Chemistry	Stack Emissions	Ammonia LOQ: 0.01 mg/m^3	EN 14791 In-house method EL-M-OP-SE-MD003
Chemistry	Stack Emissions	Sulphur Dioxide (Wet Chemical) LOQ: 0.01 mg/m^3	USEPA Method 6 EN 14791 In-house method EL-M-OP-SE-MD003

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Sulphur Dioxide LOQ: 1 ppm	USEPA CTM 30/ In-house method EL-M-OP-SE-MD022
Chemistry	Stack Emissions	Carbon Monoxide LOQ: 1 ppm	USEPA CTM 30/ In-house method EL-M-OP-SE-MD022
Chemistry	Stack Emissions	Oxide of Nitrogen (as NO2) LOQ: 1 ppm	USEPA CTM 30/ In-house method EL-M-OP-SE-MD022
Chemistry	Stack Emissions	Oxygen LOQ: 1 ppm	USEPA CTM 30/ In-house method EL-M-OP-SE-MD022
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Carbon Monoxide LOD 0.02 ppm	In-house method EL-M-OP-AQ-MD002
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Nitric Oxide LOD 0.01ppm	In-house method EL-M-OP-AQ-MD002

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Sulphur Dioxide LOD : 0.01 ppm	In-house method EL-M-OP-AQ-MD002
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Ozone LOD: 0.01 ppm	In-house method EL-M-OP-AQ-MD002
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Oxides of Nitrogen (as NO2) LOD: 0.01 ppm	In-house method EL-M-OP-AQ-MD002
Chemistry	Indoor Air Quality/ Ambient Atmosphere	TSP, PM1, PM2.5 & PM10 LOD: 1 ug/m^3	In-house method EL-M-OP-AQ-MD002 & MD003
Chemistry	Indoor Air Quality/ Ambient Atmosphere	TSP, 0.3, 0.5, 1.0, 2.5, 5.0 and 10.0 micron LOD: 1 ug/m^3	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Carbon Dioxide (CO_2) LOD: 50ppm Range 0-10,000 ppm	In-house method EL-M-OP-AQ-MD004

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Carbon monoxide (CO) LOD 0.5 ppm Range 0-750 ppm	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Volatile organic compound (VOC) LOD 0.02ppm Range 0-20ppm	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Hydrogen Sulphide (H_2S) LOD 0.03ppm Range 0-50ppm	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Ozone (O_3) LOD 0.02 ppm Range 0-1 ppm	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Sulphur Dioxide (SO_2) LOD 0.1ppm Range 0-30 ppm	In-house method EL-M-OP-AQ-MD004

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Nitrogen Dioxide (NO_2) LOD 0.02ppm Range 0-20 ppm	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Ammonia (NH_3) LOD 1ppm Range 0-100ppm	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Particulate LOD 0.3um Range 0.3-145um	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Ambient Atmosphere	Formaldehyde (CH_2O) LOD 20ppb Range 0-1000ppb	In-house method EL-M-OP-AQ-MD004
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of LEED IAQ VOC Suite with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M-OP-OH-MD001

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of VOCs with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M-OP-OH-MD001
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of BTEX (Benzene, Toluene, Ethyl Benzene, Xylene) with subsequent analysis by an ISO/IEC 17025accredited laboratory	In-house method EL-M-OP-OH-MD001
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of n-hexane, Cyclohexane, n-pentane, n-octane with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M-OP-OH-MD001

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of Ammonia with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M-OP-OH-MD001
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of Formaldehyde, Acetaldehyde with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M-OP-OH-MD001
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of Amines with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M-OP-OH-MD001

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Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of Hydrogen Sulphide with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M-OP-OH-MD001
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of phenol with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M-OP-OH-MD001
Chemistry	Personal Exposure & Indoor Air Quality/ Ambient Monitoring	Personal Noise Exposure Monitoring LOD 5dB Range 0-140 dB	In-house method EL-M-OP-OH-MD002

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Personal Exposure & Indoor Air Quality/ Ambient Monitoring	Inhalable Dust and Respirable Dust Exposure Monitoring LOD 0.1 mg/m^3 Range 0-30 mg/m^3	In-house method EL-M-OP-OH-MD003
Physical	Indoor Air Quality/ Ambient atmosphere	Noise LOD: 0.1 dB Range: 20-140 dB	ISO 1996 Part 2 In-house method EL-M-OP-NO-MD001
Microbiology	Air	Total Bacterial Count	In-house method EL-M-OP-MIC-SOP028
Microbiology	Air	Enumeration of Moulds	In-house method EL-M-OP-MIC-SOP028
Microbiology	Air	Enumeration of Yeast	In-house method EL-M-OP-MIC-SOP028
Sampling	Air	Total Bacterial Count	NIOSH Method 800:1998

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Type of Activity	Test Materials/Products	Test Name	Test Method
Sampling	Air	Air sampling for Yeast	IESO 1220
Sampling	Air	Air sampling for Mould	IESO 1220
Sampling	Air	Total Bacterial Count	In-house method EL-M-OP-MIC-SOP028
Sampling	Air	Air sampling for Yeast	In-house method EL-M-OP-MIC-SOP028
Sampling	Air	Air sampling for Mould	In-house method EL-M-OP-MIC-SOP028

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water/ Waste Water	pH	APHA 4500 H+ B In-house method EL-M-OP-CH-DXB-MD301
		Total Suspended Solids	APHA 2540 D In-house method EL-M-OP-CH-DXB-MD209
		Total Dissolved Solids	APHA 2540 C BS 1377 Part 3
		Oil and Grease	In-house method EL-M-OP-CH-DXB-MD414 APHA 5520 B
		Biological Oxygen Demand-5 days	In-house method EL-M-OP-CH-DXB-MD304 APHA 5210 B
		Chemical Oxygen Demand	APHA 5220 B In-house method EL-M-OP-CH-DXB-MD307A

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water/ Waste Water	Metals-Cu, Cd, Pb, Zn, Ni, Cr, Fe, Mn ,Ag, Co	In-house method EL-M-OP-CH-DXB-MD106A In-house method EL-M-OP-CH-DXB-MD106B In-house method EL-M-OP-CH-DXB-MD106C In-house method EL-M-OP-CH-DXB-MD106D APHA 3120 B USEPA 200.7
	Water / Soils	Determination of Extractable Petroleum Hydrocarbons (EPH)	In-house method EMT-M-OP-CH-DXB-MD401 EPA 8015D
		Determination of Poly Aromatic Hydrocarbons (PAH) in Soils and Waters by GCMS	In-house method EL-M-OP-CH-DXB-MD403 EPA 8270E

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water / Soils	Determination of Volatile Petroleum Hydrocarbons (VPH) by GCFID & BTEX	EL-M-OP-CH-DXB-MD405 EPA 8015D
		Determination of Volatile Petroleum Hydrocarbons (VPH) by GCFID & BTEX	In-house method EL-M-OP-CH-DXB-MD408 EPA 8015 D
		Determination of Trace Level Mercury by PSA Cold Vapour Atomic Fluorescence Spectrometry	In-house method EL-M-OP-CH-DXB-MD114 EPA 245.7
	Water	Determination of Volatile Organic Compounds (VOC) in Waters by GCMS with Head Space	In-house method EL-M-OP-CH-DXB- MD404A EPA 5021A EPA 8260B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Determination of Organo-Chlorine Pesticide (OCP) in waters by GC-ECD to EX-M-OP-CH-DXB-MD402 & EPA 8081A.	In-house method EL-M-OP-CH-DXB-MD402 EPA 8081B EPA 608
		Determination of Metals and other Elements in Potable/Drinking, Effluent & saline Waters by ICP-OES.	In-house method EL-M-OP-CH-DXB-MD106B APHA 3120 B USEPA 200.7
		Determination of Metals and other Elements in Potable/Drinking, Effluent & saline Waters by ICP-OES.	In-house method EL-M-OP-CH-DXB-MD106A In-house method EL-M-OP-CH-DXB-MD106B In-house method EL-M-OP-CH-DXB-MD106C APHA 3120 B USEPA 200.7

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Chemistry	Water	Determination of Metals and other Elements in Potable/Drinking, Effluent & saline Waters by ICP-OES.	In-house method EL-M-OP-CH-DXB-MD106A In-house method EL-M-OP-CH-DXB-MD106B In-house method EL-M-OP-CH-DXB-MD106C APHA 3120 B USEPA 200.7
		Determination of Inorganics Anions in Water by Ion Chromatography	In-house method EL-M-OP-CH-DXB-MD322 APHA 4110 EPA 300.1
		Determination of Bromate by Ion Chromatography	In-house method EL-M-OP-CH-DXB-MD322 APHA 4110 EPA 300.1
		Determination of Metals and Other Elements in Waters by ICP-MS	In-house method EL-M-OP-CH-DXB-MD106D APHA 3125

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Organophosphorous Pesticides (OPP`s)	In-house method EL-M-OP-CH-DXB-MD430 EPA 8270 D
		Phenols	In-house method EL-M-OP-CH-DXB-MD415 EPA 528
		Polychlorinated Biphenyls (PCBs)	In-house method EL-M-OP-CH-DXB-MD416 EPA 8270 E
		Alkalinity (inc Total ,p, m, Carbonate, Bicarbonate, Hydroxide)	In-house method EL-M-OP-CH-DXB-MD210 APHA 2320 B
		Ammoniacal Nitrogen [NH4-N]	In-house method EL-M-OP-CH-DXB-MD302 HACH 8155
		Chlorine Residual (Free & Total)	In-house method EL-M-OP-CH-DXB-MD206 APHA 4500-Cl- G HACH 8167 HACH 8021

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Colour	In-house method EL-M-OP-CH-DXB-MD204 HACH 8025
		Conductivity	In-house method EL-M-OP-CH-DXB-MD201 APHA 2510
		Dissolved oxygen	In-house method EL-M-OP-CH-DXB-MD304 APHA 4500-O C
		Easy Liberated Cyanide (Free)	In-house method EL-M-OP-CH-DXB-MD310 HACH 8027
		Fluoride	In-house method EL-M-OP-CH-DXB-MD328 HACH 8029
		Fluoride (ISE)	In-house method EL-M-OP-CH-DXB-MD328A ASTM D1179 APHA 4500-F, C

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Chloride by titration	In-house method EL-M-OP-CH-DXB-MD325 APHA 4500 Cl B ASTM D512
		Sulfate (gravimetric)	In-house method EL-M-OP-CH-DXB-MD324 BS EN 196-2 APHA 4500 SO_4^{2} - C
		Hardness (Total and calcium)	In-house method EL-M-OP-CH-DXB-MD211 In-house method EL-M-OP-CH-DXB-MD211A APHA 2340 B APHA 2340 C APHA 3500-Ca - B
		Hexavalent Chromium	EL-M-OP-CH-DXB-MD330 HACH 8023

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Nitrite [Nitrite-Nitrogen]	In-house method EL-M-OP-CH-DXB-MD317 HACH 8507
		Nitrate [Nitrate-Nitrogen]	In-house method EL-M-OP-CH-DXB-MD315 HACH 8192 APHA 4500- NO_3 -N
		Nitrogen Kjeldhal (TKN)	In-house method EL-M-OP-CH-DXB-MD337 APHA 4500-Norg B
		Nitrogen Total (TN)	In-house method EL-M-OP-CH-DXB-MD318 ASTM D5176
		Orthophosphate [PO4-P]	In-house method EL-M-OP-CH-DXB-MD326 EPA 365.2 HACH 8048

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Phenols (Total)	In-house method EL-M-OP-CH-DXB-MD333 HACH 8047
		Salinity	In-house method EL-M-OP-CH-DXB-MD201 APHA 2520
		Sulphide by titration	In-house method EL-M-OP-CH-DXB-MD332A APHA 4500 S^2
		Sulphide by colorimetry	In-house method EL-M-OP-CH-DXB-MD332B HACH 8131
		Total Organic Carbon (TOC)	EL-M-OP-CH-DXB-MD319 APHA 5310 B
		Turbidity	In-house method EL-M-OP-CH-DXB-MD203 APHA 2130 A

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Chlorate, Chlorite	In-house method EL-M-OP-CH-DXB-MD~~309~~ 322 APHA 4110 D
		Silica	In-house method EL-M-OP-CH-DXB-MD327 HACH 8185/8186
		Fixed and volatile solids	APHA 2540 G
		Oxidation/reduction Potential	APHA 2580 B
		Chlorophyll a	APHA 10200 H SOP# EL-M-OP-CH-DXB-MD339
		Anionic surfactants	APHA 5540C SOP# EL-M-OP-CH-DXB-MD340
	Soils	Determination of metals by ICP OES	In-house method EL-M-OP-CH-DXB-MD112 ~~A~~PHA 3120 B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soils	Determination of Volatile Organic Compounds (VOC) in Soils by GCMS with Head Space	In-house method EL-M-OP-CH-DXB-MD404B EPA 5021 A EPA 8260 D
	Soil / Sediment	Boron (Hot Water Extraction)	EL-M-OP-CH-DXB-MD140 APHA 3120 B
		Hexavalent Chromium	In-house method EL-M-OP-CH-DXB-MD330 HACH 8023
		Easy Liberated Cyanide (Free)	In-house method EL-M-OP-CH-DXB-MD310 HACH 8027
		Phenols	In-house method EL-M-OP-CH-DXB-MD415B EPA 8270 D
		Polychlorinated Biphenyls (PCB's)	In-house method EL-M-OP-CH-DXB-MD416 EPA 8270 E

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil / Sediment	Fluoride	In-house method EL-M-OP-CH-DXB-MD328 HACH 8029
		Sulphide	In-house method EL-M-OP-CH-DXB-MD332 HACH 8131
		Nitrate	In-house method EL-M-OP-CH-DXB-MD315A In-house method EL-M-OP-CH-DXB-MD315 HACH 8192
		Nitrite	EL-M-OP-CH-DXB-MD317 HACH 8507
		Ammonia	In-house method EL-M-OP-CH-DXB-MD302 HACH 8155

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil / Sediment	Ortho phosphate	In-house method EL-M-OP-CH-DXB-MD326 HACH 8048
		Total, organic and TKN nitrogen	In-house method EL-M-OP-CH-DXB-MD337 APHA 4500-Norg B
		Organochlorine Pesticide (OCP)	In-house method EL-M-OP-CH-DXB-MD402 EPA 8081 B
	Water & Soil	Nitrate, Nitrite, Ammonia, Cyanide, Orthophosphate, Hexavalent chromium, Sulfate, Chloride, Phenols, Silica, Fluoride	In-house method EL-M-OP-CH-DXB-MD323C SKALAR
	Soil	Total Petroleum Hydrocarbons -Criteria Working Group (TPH CWG) – EPH fraction	In-house method EL-M-OP-CH-DXB-MD432 EPA 8015D EPA 5021 A

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	Toxicity Characteristic Leaching Procedure (TLCP) (ICP-OES)	
		Aluminium (Al) (LOQ 0.1 mg/L)	EPA 1311 SOP# EL-M-OP-CH-DXB-MD157
		Antimony (Sb) (LOQ 0.1 mg/L)	
		Arsenic (As) (LOQ 0.1 mg/L)	
		Barium (Ba) (LOQ 0.1 mg/L)	
		Beryllium (Be) (LOQ 0.001 mg/L)	
		Boron (B) (LOQ 0.1 mg/L)	
		Cadmium (Cd) (LOQ 0.05 mg/L)	
		Chromium (Cr) (LOQ 0.3 mg/L)	
		Cobalt (Co) (LOQ 0.05 mg/L)	

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Chemistry	Soil	Toxicity Characteristic Leaching Procedure (TLCP) (ICP-OES)	
		Copper (Cu) (LOQ 0.3 mg/L)	EPA 1311 SOP# EL-M-OP-CH-DXB-MD157
		Iron (Fe) (LOQ 1.00 mg/L)	
		Lead (Pb) (LOQ 0.1 mg/L)	
		Lithium (Li) (LOQ 0.3 mg/L)	
		Manganese (Mn) (LOQ 0.1 mg/L)	
		Molybdenum (Mo) (LOQ 0.01 mg/L)	
		Nickle (Ni) (LOQ 0.1 mg/L)	
		Phosphorus (P) (LOQ 0.1 mg/L)	
		Selenium (Se) (LOQ 0.1 mg/L)	

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	Toxicity Characteristic Leaching Procedure (TLCP) (ICP-OES)	
		Silicon (Si) (LOQ 0.05 mg/L)	EPA 1311 SOP# EL-M-OP-CH-DXB-MD157
		Silver (Ag) (LOQ 0.1 mg/L)	
		Strontium (Sr) (LOQ 0.1 mg/L)	
		Thallium (Th) (LOQ 0.1 mg/L)	
		Tin (Sn) (LOQ 0.15 mg/L)	
		Titanium (Ti) (LOQ 0.1 mg/L)	
		Vanadium (V) (LOQ 0.1 mg/L)	
		Zinc (Zn) (LOQ 0.1 mg/L)	

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil	pH	USDA Handbook 60 SOP# EL-M-OP-CH-DXB-MD155
		Electrical conductivity	USDA Handbook 60 SOP# EL-M-OP-CH-DXB-MD155
		Cation Exchange Capacity (CEC) (ICP-OES)	USDA Handbook 60 SOP# EL-M-OP-CH-DXB-MD155
		Exchangeable Sodium (ICP-OES)	USDA Handbook 60 SOP# EL-M-OP-CH-DXB-MD155
		Sodium Adsorption Ratio SAR (ICP-OES)	USDA Handbook 60 SOP# EL-M-OP-CH-DXB-MD155
	Soil & water	Total Petroleum Hydrocarbons -Criteria Working Group (TPH CWG) – VPH fraction	In-house method EL-M-OP-CH-DXB-MD433 EPA 5021 A EPA 8260 D

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil & water	Total cyanide	In-house method EL-M-OP-CH-DXB-MD323D MicroDist HACH
Microbiology	Water/ Waste Water	Total Bacterial count/ Heterotrophic Plate Count	EL-M-OP-MIC-MD001 APHA 9215B/ colony count technique
		Enumeration of Total coliform	EL-M-OP-MIC-MD002 APHA 9223 B/ MPN
		Enumeration of Total coliform	EL-M-OP-MIC-MD003 APHA 9222 B/ MF colony count technique
		Enumeration of Enterococci (Faecal Streptococci	APHA 9230 B
		Enumeration of Enterococci (Faecal Streptococci	APHA 9230 D
		Enumeration of E. coli	EL-M-OP-MIC-MD002 APHA 9223 B/ MPN

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water/ Waste Water	Enumeration of Faecal Coliforms	EL-M-OP-MIC-MD004 APHA 9222 D/ MF colony count technique
		Enumeration of Enterococci (Faecal streptococci)	EL-M-OP-MIC-MD005 BS EN ISO 7899-2
	Water: Drinking water Bottled water Potable water Pool and spa water Irrigation water Cooling tower Dental clinic water Fountain water	Enumerati on of Legionella Matrix A: Water with low background Matrix B: Water with	EL-M-OP-MIC-MD023 ISO 11731 Matrix A: Procedures 5,7 Matrix B: Procedures 8,9,10
		Enumeration of Clostridium perfringens	Standing Committee of Analysts - The Microbiological of Drinking Water Part 6 Method C
		Enumeration of E.coli	EL-M-OP-MIC-MD052 APHA 9222 I

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Microbiology	Water: Drinking water Bottled water Potable water Pool and spa water Irrigation water Cooling tower Dental clinic water Fountain water	Enumeration of E.coli	EL-M-OP-MIC-MD050 APHA 9221 F
		Enumeration of Enterococci (Faecal Streptococci)	EL-M-OP-MIC-MD005 BS EN ISO 7899-2
		Enumeration of Faecal Coliform	EL-M-OP-MIC-MD051 APHA 9221 E
		Enumeration of Enterococci (Faecal Streptococci) (Enterococci)	APHA 9230 C
		Enumeration of Pseudomonas aeruginosa	EL-M-OP-MIC-MD006 BS EN ISO 16266
		Detection of Salmonella species (Presence/Absence)	APHA 9274B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water: Drinking water Bottled water Potable water Pool and spa water Irrigation water Cooling tower Dental clinic water Fountain water	Enumeration of Sulphite Reducing Clostridia	Standing Committee of Analysts - The Microbiological of Drinking Water Part 6 Method A
		Enumeration of Total Coliform	EL-M-OP-MIC-MD003A APHA 9221 B
		Detection of Vibrio parahaemolyticus (Presence/Absence)	Standing Committee of Analysts - The Microbiological of Drinking Water Part 10 Method B
		Enumeration of Yeast	EL-M-OP-MIC-MD011 MFHPB-22 Colony count technique
		Enumeration of Moulds	EL-M-OP-MIC-MD011 MFHPB-22 Colony count technique

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Soil / Sediment	Enumeration of E. coli	EL-M-OP-MIC-MD050 APHA 9221 F
		Enumeration of Faecal Coliform	EL-M-OP-MIC-MD051 APHA 9221 E
		Detection of Salmonella species (Presence / Absence)	UK Standing Committee of Analysts - The Microbiological of Sludge Part 4
		Enumeration of Total Coliform	EL-M-OP-MIC-MD003A APHA 9221 B
	Water Sea water Fresh water Ballast water	Detection of Vibrio cholerae (Presence/Absence)	Standing Committee of Analysts - The Microbiological of Drinking Water Part 10 Method B

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water Sea water Fresh water Ballast water	Detection of Vibrio parahaemolyticus (Presence/Absence)	Standing Committee of Analysts - The Microbiological of Drinking Water Part 10 Method B
Sampling	Water	Water Sample Collection for Legionella Testing	EL-M-OP-MIC-SOP012 BS 7592 Section 2: Routine sSampling
Sampling	Swabs	Swab Sampling by stick swab	EL-M-OP-MIC-SOP026 ISO 18593

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical & Metallurgical	Iron, steel and other ferrous/non ferrous metals	Standard Test Methods and Definitions for Mechanical Testing of Steel Products Standard Test Methods for Notched Bar Impact Testing of Metallic Materials Metallic materials. Charpy pendulum impact test. Test method Charpy impact test (Up to 300 J & temperature range -196°C to ambient temperature)	ASTM A370 ASTM E23 A BS EN ISO 148-1

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Mechanical & Metallurgical	Iron, steel and other ferrous/non ferrous metals	Standard Test Methods for Tension Testing of Metallic Materials Metallic materials. Tensile testing. Method of test at room temperature Tensile test (forces up to 2000 kN)	ASTM E8/E8M BS EN ISO 6892-1 API 5L 46th Edition ASTM A370
Mechanical & Metallurgical	Iron, steel and other ferrous/non ferrous metals	Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials Metallic materials. Vickers hardness test. Calibration of referENce blocks Vickers hardness test (HV5 & HV10)	ASTM E92 BS EN ISO 6507-1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical & Metallurgical	Reinforcing bars, wire rod and wire for reinforcement of concrete	Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification Mass per unit length	BS 4449 +A3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical & Metallurgical	Weldments	Qualification standard for welding and brazing procedures, welders, brazers, and welding and brazing operators Structural Welding Code –SteeL Welding of Pipelines and Related Facilities Destructive tests on welds in metallic material Bend test	ASME IX AWS D1.1/D1.1M API 1104 22nd Edition BS EN ISO 5173
Mechanical & Metallurgical	Weldments	Destructive tests on welds in metallic materials. Fracture test Fracture & nick break test	BS EN ISO 9017 API 1104 22nd Edition ASME IX AWS D1.1/D1.1M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical & Metallurgical	Weldments	Destructive tests on welds in metallic materials. Hardness testing. Hardness test on arc welded joints Hardness	BS EN ISO 9015-1 API 1104 22nd Edition ASME IX AWS D1.1/D1.1M
Mechanical & Metallurgical	Weldments	Destructive tests on welds in metallic materials. Macroscopic and microscopic examination of welds Macro examination	BS EN ISO 17639 API 1104 22nd Edition ASME IX AWS D1.1/D1.1M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical & Metallurgical	Weldments	Destructive tests on welds in metallic materials. Transverse tensile test Destructive tests on welds in metallic materials. Longitudinal tensile test on weld metal in fusion welded joints Tensile	BS EN ISO 4136 BS EN ISO 5178 API 1104 22nd Edition ASME IX AWS D1.1/D1.1M
Mechanical/ Physical	Steel	Carbon Steel Bars for the reinforcement of Concrete (Steel bend tests)	BS 4449 Appendix C Clause C.1.6.1 ASTM A615/A615M
Mechanical/ Physical	Steel	Carbon Steel Bars for the reinforcement of Concrete (Steel tensile strength test)	BS 4449 BS EN ISO 15630-1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Steel	Carbon Steel Bars for the reinforcement of Concrete (Steel rebend tests)	BS 4449 Annex E Clause E.1.6
Mechanical/Physical	Steel	Carbon steel bars for the reinforcement of concrete (Rib Geometry)	BS 4449 +A3:2005(16) ASTM A615/A615M:24 BS EN ISO 15630-1:19
Chemistry	Carbon Steel, Low Alloy Steel, and Stainless Steel	Determination of chemical composition (% of C, Si, Mn, Ni, Cr, Cu, Nb, P, S, Al, Mo, V, Ti, Ca, B) by Optical Emission Spectroscopy(OES)	EMT-M-OP-CH-MD101, ASTM E415 ASTM A751 ASTM E1086
Metallurgical	Metals	Charpy Impact (-196 °C to ambient temperature) (Including Expansion and Shear)	EN ISO 9016

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Type of Activity	Test Materials/Products	Test Name	Test Method
Metallurgical	Metals	Tensile test (Ambient Temperature) (up to 2000 kN)	ASTM B557/B557M-15(R23) ASTM F606/F606M-25a BS 4449 BS EN ISO 15630-1 ASTM A615/A615M-25 ISO 6935-2
Metallurgical	Metals	Standard Test Method for Micro indentation Hardness of Materials - HV0,1, HV0,3, HV0,5, HV1	ASTM E384
Metallurgical	Metals	Standard Test Methods for Rockwell Hardness of Metallic Materials- HRB, HRC	ASTM E18 BS EN ISO 6508-1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Metallurgical	Weldments	Standard Test Methods for Vickers Hardness of Metallic Materials - HV5, HV10	ASTM E92
Metallurgical	Steel	Bend test	BS EN ISO 15630-1 BS EN ISO 7438 ISO 6935-2 ASTM E290
Metallurgical	Steel	Rebend test	BS EN ISO 15630-1 ISO 6935-2
Metallurgical	Steel	Tensile test (Ambient Temperature) (up to 2000 kN)	ASTM A615/A615M
Metallurgical	Steel	Mass per Unit Length	ASTM A615/A615M BS EN ISO 15630-1
Metallurgical	Metals	Determination of Coating Weight	ASTM A90/A90M BS EN ISO 1460

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Type of Activity	Test Materials/Products	Test Name	Test Method
Metallurgical	Metals	Tensile test -Through Thickness Tension Testing (Ambient Temperature) (up to 2000 kN)	ASTM A770/A770M ISO 7778 BS EN 10164
Metallurgical	Coatings	Coating Thickness Check	EL-M-OP-CT-DXB-MD006 BS EN ISO 2808 ASTM B499 ASTM D7091 ASTM E376
Corrosion	Metals	Determination Average Grain Size (Comparison Method)	ASTM E112
Corrosion	Steel	Determination the Inclusion Content of Steel - **Method A and Method D**	ASTM E45 Method A

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Type of Activity	Test Materials/Products	Test Name	Test Method
Metallurgical	Metals	Standard Test Method for Brinell Hardness of Metallic Materials- **HBW 1/30**	ASTM E10 BS EN ISO 6506-1
Metallurgical	Weldments	Fracture & Nick Break	AWS D1.1/D1.1M AWS B4.0 ASME Sec II Part C
Metallurgical	Weldments	(Microetching) Macroscopic and microscopic examination of Welds	AWS B4.0
Metallurgical	Metals	Metal Microstructure	EMT-M-OP-MET-MD001
Metallurgical	Steel	Slip Test	ISO 15835-2
Metallurgical	Metals	Ferrite Content test	EMT-M-OP-MET-MD022A
Metallurgical	Metals	Shear Test	ASTM A264/A264M ASTM A265/A265M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Metallurgical	Metals	Flattening test	ASTM A370 ASTM A999/A999M ASTM A1016/A1016M BS EN ISO 8492 API 5L 46th Ed 2018
Corrosion	Metals	Preparation of metallographic specimens	ASTM E3
Corrosion	Metals, alloys and weld	Standard Practice for Micro Etching Metals and Alloys	ASTM E407 BS EN ISO 17639
Corrosion	Metals	Determining Volume Fraction of Ferrite by Systematic manual point count	ASTM E562
Corrosion	Stainless steels and related alloys	Pitting Resitance of Stainless Steel and Related Alloys by use of Ferric Chloride Solution	ASTM G48

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Type of Activity	Test Materials/Products	Test Name	Test Method
Corrosion	Austenitic stainless steels	Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels	ASTM A262
Corrosion	Duplex austenitic/ ferritic stainless steels	Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steel -**Metod A, B, C**	ASTM A923
Corrosion	Stainless steels and related alloys	Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys, **Method A**	ASTM G28

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Yeast	EL-M-OP-MIC-MD011 MFHPB-22
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Mould	EL-M-OP-MIC-MD011 MFHPB-22
Microbiology	Food	Colony Count	EL-M-OP-MIC-MD026 ISO 4833-1 Amd 1
Microbiology	Food	Enumeration of Enterobacteriaceae	EL-M-OP-MIC-MD033 ISO 21528-2
Microbiology	Food	Enumeration of Coliforms	EL-M-OP-MIC-MD025 ISO 4832
Microbiology	Food	Detection of Salmonella species	EL-M-OP-MIC-MD027 ISO 6579-1 AMD 1
Microbiology	Food	Enumeration of Coagulase positive staphylococci including Staphylococcus aureus	EL-M-OP-MIC-MD028 ISO 6888-1 AMD 1
Microbiology	Food	Aerobic Plate Count	EL-M-OP-MIC-MD062 AOAC OMA 990.12 Neogen Petrifilm Method

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food	Enumeration of Coliforms	EL-M-OP-MIC-MD063 AOAC OMA 991.14 Neogen Petrifilm Method
Microbiology	Food	Enumeration of E.coli	EL-M-OP-MIC-MD065 Selective E.coli, Neogen Petrifilm method, version 2
Microbiology	Food	Enumeration of Staphylococcus aureus	EL-M-OP-MIC-MD067 AOAC OMA 2003.7, 2003.8 & 2003.11 Neogen Petrifilm method
Microbiology	Food	Enumeration of Enterobacteriaceae	EL-M-OP-MIC-MD064 AOAC OMA 2003.01 Neogen Petrifilm method
Microbiology	Food	Enumeration of Yeast	EL-M-OP-MIC-MD066 AOAC OMA 997.02 Neogen Petrifilm method
Microbiology	Food	Enumeration of Mould	EL-M-OP-MIC-MD066 AOAC OMA 997.02 Neogen Petrifilm method
Microbiology	Food	Enumeration of E.coli	EL-M-OP-MIC-MD029 ISO 7251 AMD 1
Microbiology	Food	Enumeration of Bacillus cereus	EL-M-OP-MIC-MD030 ISO 7932 AMD 1
Microbiology	Food	Enumeration of Clostridium perfringens	EL-M-OP-MIC-MD031 ISO 15213-2

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food	Enumeration of Yeast	EL-M-OP-MIC-MD011 MFHPB-22 Colony count technique
Microbiology	Food	Enumeration of Moulds	EL-M-OP-MIC-MD011 MFHPB-22 Colony count technique
Microbiology	Sea food and sea food products	Detection of Vibrio cholerae	EL-M-OP-MIC-MD034 ISO 21872-1
Microbiology	Sea food and sea food products	Detection of Vibrio parahaemolyticus	EL-M-OP-MIC-MD034 ISO 21872-1
Microbiology	Swabs: Swabs from food chain environments and personnel	Colony Count	EL-M-OP-MIC-MD026 ISO 4833-1 Amd 1
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Enterobacteriaceae	EL-M-OP-MIC-MD033 ISO 21528-2
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Total Coliform	EL-M-OP-MIC-MD025 ISO 4832
Microbiology	Food	Detection of Listeria species including Listeria monocytogenes	EL-M-OP-MIC-MD032 ISO 11290-1
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Coagulase positive staphylococci including Staphylococcus aureus	EL-M-OP-MIC-MD028 ISO 6888-1 AMD 1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Swabs: Swabs from food chain environments and personnel	Aerobic Plate Count	EL-M-OP-MIC-MD062 AOAC OMA 990.12 Neogen Petrifilm Method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Coliforms	EL-M-OP-MIC-MD063 AOAC OMA 991.14 Neogen Petrifilm Method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of E.coli	EL-M-OP-MIC-MD065 Selective E.coli, Neogen Petrifilm method, version 2
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Staphylococcus aureus	EL-M-OP-MIC-MD067 AOAC OMA 2003.7, 2003.8 & 2003.11 Neogen Petrifilm method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Enterobactericeae	EL-M-OP-MIC-MD064 AOAC OMA 2003.01 Neogen Petrifilm method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Yeast	EL-M-OP-MIC-MD066 AOAC OMA 997.02 Neogen Petrifilm method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Mould	EL-M-OP-MIC-MD066 AOAC OMA 997.02 Neogen Petrifilm method
Microbiology	Food & Swab	Enumeration of Bacillus cereus	Compact Dry Method

مـركـز الإمـارات الـعـالـمـي لـلاعـتـمـاد
Emirates International Accreditation Centre

Accreditation Scope

Construction Materials- Green Building Testing

LB-TEST-002

Al Futtaim Element Materials Technology Dubai LLC

Plot 598-221 | Dubai Investment Park |, Jebel Ali

Dubai | United Arab Emirates

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Paint	Determination of VOCs in paint by gas chromatography	EL-M-OP-CH-DXB-MD404C ISO 11890 Part 2
Chemistry	Paint	Determination of VOCs in paint by difference	EL-M-OP-CH-DXB-MD404D EPA 24 ISO 11890 Part 1 ASTM D3960 ASTM D2369
Chemistry	Paint	Determination of trace metals in Paint	EL-M-OP-CH-DXB- APHA 3120 B

Uncontrolled if Printed