مـركـز الإمـارات الـعـالـمـي لـلاعـتـمـاد
Emirates International Accreditation Centre

ACCREDITATION CERTIFICATE

LB-TEST-033

Emirates **I**nternational **A**ccreditation **C**entre

has accredited

AL MAWAZEEN SOIL TESTING

Al Qusais Industrial Area 1

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: 09-05-2024 to 08-05-2027

Initial Accreditation Date: 20-04-2009

ilac-MRA

Amina Ahmed Mohammed
CHIEF EXECUTIVE OFFICER

Accreditation Scope

Environmental Testing

LB-TEST-033

Al Mawazeen Soil Testing

Al Qusais Industrial Area 1

Dubai | United Arab Emirates

Date: 09-05-2024

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

Environmental Testing

03	Renewal accreditation from EIAC	09-05-2024
02	Renewal accreditation from EIAC	16-05-2021
01	Granted accreditation from Emirates International Accreditation Centre 'EIAC' (Which was formerly known as DAC)	18-01-2021

Geotechnical Investigation

07	Renewal accreditation from EIAC	09-05-2024
06	Modification in Test Methods for chemical (soil,water)	21-08-2023
05	Renewal accreditation from EIAC	16-05-2021
04	Extension in scope and first issuance under Emirates International Accreditation Centre 'EIAC' (Which was formerly known as DAC)	18-01-2021

Construction Materials Testing

09	Renewal accreditation from EIAC	09-05-2024
08	Voluntary Reduction in Scope (remove PVC Rubber test)	21-08-2023
07	Renewal accreditation from EIAC	16-05-2021
06	Extension in scope and first issuance under Emirates International Accreditation Centre 'EIAC' (Which was formerly known as DAC)	18-01-2021

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Issue no.: 03 **Date: 09-05-2024** **Valid to: 08-05-2027**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water: Potable, Drinking , Tap, Pool, Spa	Heterotrophic plate count	APHA 9215 B 24th Edition
Microbiology	Water: Potable, Drinking , Tap, Pool, Spa	Enumeration of Coliforms	APHA 9222 B 24th Edition
Microbiology	Water: Potable, Drinking , Tap, Pool, Spa	Enumeration of E. coli	APHA 9222 B 24th Edition
Microbiology	Water: Potable, Drinking , Tap, Pool, Spa	Enumeration of Pseudomonas aeruginosa	BS EN ISO 16266
Microbiology	Water: Potable, Drinking , Tap, Pool, Spa	Enumeration of Fecal Coliforms	APHA 9222 B & APHA 9221 E 24th Edition
Microbiology	Water: Potable, Drinking , Tap, Pool, Spa	Enumeration of Fecal streptococci	APHA 9230 B & APHA9230 C 24th Edition

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Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water: Potable, Drinking , Tap, Pool, Spa	Enumeration of Legionella spp. Including Legionella pneumophila serotype 1 and 2-14.	ISO 11731 Matrix A Procedure 7 Matrix B Procedure 8, 9, 10 Matrix C Procedure 14
Sampling	Water: Potable, Drinking , Tap, Pool, Spa	Sampling for Legionella bacteria in water systems. Code of practice Section 2: Routine sampling	BS 7592
Sampling	Water: Potable, Drinking , Tap, Pool, Spa	Other sampling and sample handling	APHA 9060 A 24th Edition APHA 1060 24th Edition

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Issue no.: 07 **Date: 09-05-2024** **Valid to: 08-05-2027**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil investigation	Methods of test for soils for civil engineering purposes Part 9: In-situ tests In Situ penetration test- Determination of the penetration resistance using the split-barrel sampler (the standard penetration test SPT)	BS 1377 Part 9 Clause 3.3
Mechanical / Physical	Soil investigation	Code of practice for site investigations Section 3: Field investigations- Soil Sampling: - Light cable percussion boring - Sampling the ground	BS 5930:2015+A1 Clause 24.9, 24.11 & 25

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Issue no.: 07 **Date: 09-05-2024** **Valid to: 08-05-2027**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Soil investigation	Code of practice for site investigations Section 6: Description of soils and rocks- Soil Description - Description of soils • Description and classification of rocks	BS 5930 +A1 Clause 32, 33 & 36, Clark and Walker
Mechanical / Physical	Ground Water	Code of practice for site investigations Ground water level measurement • Section 3. Field investigations- Methods of determining groundwater pressures • Section 4. Field tests- Observation Wells	BS 5930 +A1 Clause 52

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Ground Water	Code of practice for site investigations Section 3. Field investigations- Groundwater samples	BS 5930 +A1 Clause 26.4
Mechanical / Physical	Reporting	Code of Practice for Site Investigations Geotechnical Reporting	BS 5930 +A1 Section 10
Mechanical / Physical	Rock	Rock quality designation	BS 5930 +A1 Clause 6.0, 36.4.4
Mechanical / Physical	Rock	Code of practice for site investigations Section 6. Description of soils and rocks- Description of rock masses- Rock quality designation	BS 5930 +A1 Clause 32, 33 & 36, Clark and Walker

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Issue no.: 07 **Date: 09-05-2024** **Valid to: 08-05-2027**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Rock	Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures	ASTM D7012-14^{E1} Method C (at room temperature)
Mechanical / Physical	Rock	Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543
Mechanical / Physical	Rock	Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D 2216

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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 chloride content Determination of Acid soluble Chloride content of soil	BS 1377 Part 3 +A1 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 water soluble sulphate content of soil and ground water Determination of Acid soluble Sulphate content of soil	BS 1377 Part 3 +A1 Clause 7.6 & Clause 7.9
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 Part 3 +A1 Clause 12

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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 water soluble Chloride content of soil	BS 1377 Part 3 +A1 Clause 9.2
Chemical	Soil	Methods of test for Soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of water soluble Sulphate content of soil	BS 1377 Part 3 +A1 Clause 7.3, Clause 7.6

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water	Methods of test for Soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of the Chloride content of ground water	BS 1377 Part 3 +A1 Clause 9.2.7
Chemical	Water	Methods of test for Soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of the Sulphate content of ground water	BS 1377 Part 3 +A1 Clause 7.6, 7.8

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Water	Methods of test for Soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Determination of the pH value pH of Ground water	BS 1377 Part 3 +A1 Clause 12

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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 9: In-situ tests Sand replacement method suitable for fine, medium and coarse grained soils (large ~~and small~~ pouring cylinder method)	BS1377 Part 9 Clause 2.2, AMD 8264

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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 4: Compaction-related tests. Determination of dry density/moisture (water) content relationship: - Method using 4.5 kg rammer for soils with particles up to medium-gravel size - Method using 4.5 kg rammer for soils with some coarse gravel-size particles	BS 1377-2 Clause 11.5 & 11.6
Mechanical / Physical	Soil	Methods of test for Soils for civil engineering purposes Part 2: Classification tests Determination of particle size distribution- Wet sieving method & Dry Sieving Method	BS 1377-2 Clause 10 BS EN 17892-4 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 4: Compaction-related tests. Determination of the California Bearing Ratio (CBR)	**BS 1377-2** **Clause 15**
Mechanical / Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests Determination of moisture (water) content-Oven-drying method	BS 1377 Part 2 Clause 3.2, AMD 9027 BS 1377-2 Clause 4.1 BS EN 17892-1 +A1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Aggregate	Testing aggregates Method for determination of particle size distribution. Sieve tests	BS EN 933-1
Mechanical / Physical	Hardened Concrete	Testing concrete Part 116: Method for determination of compressive strength of concrete cubes	BS 1881 Part 116 AMD 6720
Mechanical / Physical	Hardened Concrete	Testing hardened concrete Part 3: Compressive strength of test specimens	BS EN 12390-3

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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 AMD 6721
Mechanical / Physical	Hardened Concrete	Testing hardened concrete Part 7: Density of hardened concrete	BS EN 12390-7
Mechanical / Physical	Hardened Concrete	Testing concrete Part 111: Method of normal curing of test specimens (20°C method)	BS 1881 Part 111 AMD 6720:1991

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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 12390-1
Mechanical / Physical	Hardened Concrete	Testing hardened concrete Part 8: Depth of penetration of water under pressure	BS EN 12390-8
Mechanical / Physical	Hardened Concrete	Testing concrete Part 122: Method for determination of water absorption	BS 1881 Part 122 +A1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Hardened Concrete	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration (RCP)	ASTM C1202
Mechanical / Physical	Carbon Steel Bars for Reinforcement of Concrete	Metallic materials- Tensile testing Part 1: Method of test at room temerature	BS EN ISO 6892-1
		Steel for the reinforcement of concrete - weldable reinforcing steel - bar, coil and decoiled product - specification	BS 4449 +A3

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Carbon Steel Bars for Reinforcement of Concrete	Steel for the reinforcement of concrete - weldable reinforcing steel - bar, coil and decoiled product - specification Bend Test	BS 4449 +A3 Cl. 7.2.5 BS EN ISO 15630-1: Cl. 6 ISO 7438
Mechanical / Physical	Carbon Steel Bars for Reinforcement of Concrete	Steel for the reinforcement of concrete - weldable reinforcing steel - bar, coil and decoiled product - specification Rebend Test	BS 4449 +A3 Clause 7.2.5

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Carbon Steel Bars for Reinforcement of Concrete	Steel for the reinforcement and prestressing of concrete. Test methods Part 1: Reinforcing bars, rods and wire Rebend Test	BS EN ISO 15630-1 Clause 7
Mechanical / Physical	Steel Strand Wire	Standard Test Method for Testing Multi-Wire Steel Prestressing Strand	ASTM A1061/A1061M
Mechanical / Physical	Steel Strand Wires	Strandard Specification for Low-Relaxation, Seven-Wire Steel Strand for Prestressed Concrete - Breaking Strength	ASTM A416/A416M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Masonry Blocks	Precast concrete masonry units Part 2: Guide for specifying precast concrete masonry units Compressive strength of Masonry Blocks	BS 6073 Part 2 Appendix B Amd. 4508-1984
Mechanical / Physical	Masonry Blocks	Precast concrete masonry units Part 1: Specification for precast concrete masonry units Dimension of Masonry Blocks	BS 6073 Part 1 Appendix A Amd. 4462-1984
Mechanical / Physical	Masonry Blocks	Methods of test for masonry units Part 16: Determination of dimensions	EN 772-16

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Masonry Blocks	Methods of test for masonry units Part 1: Determination of compressive strength	EN 772-1 +A1
Mechanical / Physical	Paving Blocks	Precast concrete paving blocks Part 1: Specification for paving blocks Compressive Strength of Paving Blocks	BS 6717 Part 1 Annex B
Mechanical / Physical	Paving Blocks	Precast concrete paving blocks Part 1: Specification for paving blocks Dimension of Paving Blocks	BS 6717 Part 1 Annex A

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Water Proofing Membrane	Standard Test Method for Sampling and Testing Modified Bituminous Sheet Material- Load Strain Properties.	ASTM D5147/ D5147M Clause 7
Mechanical / Physical	Water Proofing Membrane	Flexible sheets for waterproofing. Determination of tensile properties Part 2: Bitumen sheets for roof waterproofing	EN 12311 Part 2
Mechanical / Physical	Water Proofing Membrane	Flexible sheets for waterproofing. Determination of thickness and mass per unit area Part 1: Bitumen sheets for roof waterproofing	BSEN 1849 Part 1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Plastics	Standard Test Method for Water Absorption of Plastics	AASTM D570
Mechanical / Physical	Flexible membrane	Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover Tensile Strength	ASTM E154/ E154M Section 9
Mechanical / Physical	Flexible membrane	Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover Resistance to Puncture	ASTM E154/ E154M Test 10

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical / Physical	Rubber	Standard Test Method for Rubber Property—Durometer Hardness Shore A Hardness	ASTM D2240 Causel 9.2
Mechanical / Physical	Geotextile	Geosynthetics. Static puncture test (CBR test)	BS EN ISO 12236
Mechanical / Physical	Geotextile	Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products	ASTM D4833/ D4833M Part 7