

Accreditation Scope

Engineering & Research International - ERI - LLC, (NAL 066)
Testing Laboratory, (ISO/IEC 17025:2017)

Industrial Mussafah, Abu Dhabi, UAE

Issue Date: 18-10-2020

Expiry Date: 09-06-2021

Issue No: 05

Testing Field	Materials/ Products tested	Type of test/ Test parameter/ Properties measured/ Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Construction Materials	Soil	Density and Unit Weight of soil in place by the Sand Cone Method	ASTM D 1556-15	S
		Standard Test Method for Laboratory Compaction Characteristic of Soil Using Modified Effort	ASTM D 1557-12e1	P
		Determination of Particle Size Distribution (Hydrometer)	BS 1377-2:1990 Cl. 9.2 & 9.3 & AMD 9027-1996 (Partially replaced, Superseded)	
		Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Swallow Depth)	ASTM 6938-17a	S
		Moisture content of soil	BS 1377-2:1990 Cl. 3.2 (Partially replaced, Superseded)	P
		Atterberg Limits (Liquid Limit, Plastic Limit, Plasticity Index)	BS 1377-2:1990 Cl. 4.5, 5.3, 5.4 (Partially replaced, Superseded)	
	Hardened Concrete	Determination of Compressive Strength of Concrete Specimens	BS EN 12390-3:2019	P
		Determination of Density of hardened Concrete	BS EN 12390-7:2019	
		Determination of Shape, dimensions and other requirements for specimens & moulds	BS EN 12390-1:2012	
		Making & curing specimens for strength tests	BS EN 12390-2:2019	

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Construction Materials	Fresh Concrete	Testing of fresh concrete	BS EN 12350-1:2019	S
		Slump test	BS EN 12350-2:2019	
	Aggregates	Determination of Elongation index of coarse aggregates	BS 812-105.2:1990	P
		Determination of Flakiness Index of coarse aggregate	BS 812-105.1:1989	
Sieve Analysis of fine and coarse aggregate		ASTM C 136:2019		
Chemical	Soil	Acid Soluble Sulphate Content of Soil	BS 1377-3:2018, Cl. 7.2,7.6 & 7.9	P
		Water Soluble Sulphate Content of Soil	BS 1377-3:2018, Cl. 7.2,7.3 & 7.6	
		Acid soluble Chloride Content of Soil	BS:1377-3:2018, Cl. 9.3	
		Water soluble Chloride Content of Soil	BS:1377-3:2018, Cl. 9.2	
		pH value of Soil	BS:1377-3:2018, Cl. 12	
	Ground Water	pH value of Ground Water	BS:1377-3:2018, Cl. 12	P
		Sulphate Content of Water	BS:1377-3:2018, Cl. 7.2, 7.6 & 7.8	
		Chloride Content of Water	BS:1377-3:2018, Cl. 9.2	

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Geotechnical	Soil & Rock	Soil & Rock Sampling	BS 5930:2015, Cl. 22	S
	Soil	Standard Penetration Test (SPT)	BS 1377-9:1990 Cl. 3.3	S
		Soil Description	BS 5930:2015, Section 6	
	Ground Water	Ground Water Level Measurement	BS 5930:2015, Section 4, Cl. 26	S
		Ground Water Sampling	BS 5930:2015, Section 4, Cl. 27	
	Rock	Rock Quality Designation	BS 5930:2015, Section 6	P / S
		Unconfined compressive strength of intact rock specimens & Preparing Rock Core specimens	ASTM D 7012-14e1, ASTM D 4543-2019	P
	Soil / Rock	Moisture Content of soil/rock	ASTM D2216-2019	P
	N/A	Reporting	BS 5930:2015 – Section 10	P
END				