



# Accreditation Scope

## Geoscience Testing Laboratory (NAL 134) Testing Laboratory, (ISO/IEC 17025:2017)

Khorfakkan, Al Zubara Industrial Area, Sharjah, UAE

Issue Date: 06-12-2022

Expiry Date: 05-10-2025

Issue No: 04

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)
Material Testing	Soil	Determination of In-Situ Density by Sand Replacement Method using Large Pouring Cylinder	BS 1377-9:1990, Cl. 2.2, AMD 17229:2007	S
		Determination of the vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990, Cl. 4.1, AMD 17229:2007	
		Determination of Dry Density – Moisture Content Relationship using 4.5kg rammer for coarse and medium gravel size particles	BS 1377-2:2022, Cl. 11.5 & 11.6	P
		Determination of Particle Size Distribution	BS 1377-2:2022, Cl. 10 BS EN ISO17892-4:2016, Cl. 5.2	
		Determination of California Bearing Ratio	BS 1377-2:2022, Cl. 15	
	Rock	Determination of Particle Size Distribution of Coarse Grading (Rock Armour Grading)	BS EN 13383-2:2019, Cl.5	S
		Determination of Mass Distribution of Light and Heavy Grading (Rock Armour Grading)	BS EN 13383-2:2019, Cl.6	
		Determination of the Percentage of Pieces of Armourstone with a length-to-thickness ratio greater than 3 (Length-to-thickness ratio of quarried stone)	BS EN 13383-2:2019, Cl.7	
		Drop Test Breakage Index	CIRIA SP 83, Appendix A1-A3	



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Material Testing	Aggregate	Determination of Particle Size Distribution – Sieving Method	BS EN 933-1:2012, Cl. 7	P
		Sieve Analysis of Fine and Coarse Aggregate	ASTM C136/C136M-19	
		Soundness of Aggregate by the use of Sodium Sulphate and Magnesium Sulphate	ASTM C88/C88M-18	
		Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	ASTM C127-15	
		Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C128-15	
		Determination of Shell Content in Coarse Aggregate	BS EN 933-7:1998	
		Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419-14	
		Resistance to Degradation of Small or Large Size Coarse Aggregate by Abrasion and Impact in Los Angeles Machine	ASTM C131-C131M-20 ASTM C535-16	
		Determination of Resistance to Fragmentation by the Los Angeles Test Method	BS EN 1097-2:2020, Cl. 5	
		Determination of Aggregate Crushing Value	BS 812-110:1990	
		Determination of Elongation Index	BS 812:1990, Section 105.2	
		Determination of Flakiness Index	BS 812:1990, Section 105.1	



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Material Testing	Aggregate	Determination of particle shape. Flakiness index	BS EN 933-3:2012	P
		Determination of Particle Density and Water Absorption	BS EN 1097-6:2022	
	Concrete Cubes	Method of Normal Curing Test Specimen (20 °C Method)	BS 1881-111:1983, AMD 9387:1997	P
		Method of Determination of Density of Hardened Concrete	BS 1881-114:1983, AMD 6721:1991	
		Method of Determination of Compressive Strength of Concrete Cubes	BS 1881-116:1983, AMD 6720:1991	
		Shape, Dimension and other requirements for specimens and moulds	BS EN 12390-1:2021	
		Making and Curing Specimens for Strength Tests	BS EN 12390-2:2019	
		Compressive Strength of Test Specimens	BS EN 12390-3:2019	
		Density of Hardened Concrete	BS EN 12390-7:2019	
	Soil	Liquid Limit/ Plastic Limit/ Plasticity Index	BS 1377-2:2022, Cl. 5.3, Cl. 5.5 and Cl. 6.5 BS EN ISO 17892-12:2018 + A2:2022	P
Determination of Water Content		BS EN ISO 17892-1:2014 + A1:2022		
<b>END</b>				