



# Accreditation Scope

## Geoscience Testing Laboratory - LLC – Branch (NAL 184) Testing Laboratory, (ISO/IEC 17025:2017)

Sanaiya, Al Ain – Abu Dhabi, UAE

Issue Date: 28-07-2022

Expiry Date: 27-07-2025

Issue No: 01

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)
Physical	Aggregates	Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791-2019	P
		Specific Gravity and Absorption of Fine Aggregate	AASHTO T84 - 2013(2021)	P
		Clay Lumps and Friable Particles in Aggregate	AASHTO T112-2021	P
		Materials Finer Than 75-microns	AASHTO T11- 2020	P
		Percentage of Fracture in Coarse Aggregate	AASHTO T335- 2009(2018)	P
		Determination of Particle Size Distribution Sieving Method	BS EN 933-1-2012	P
		Mechanical and physical properties of aggregates. Determination of particle density and water absorption	BS EN 1097-6-2013	P
		Test for Sieve Analysis of Fine and Coarse Aggregates	AASHTO T27-2020	P
		Testing aggregates Methods for determination of density	BS 812 Part 2 1995 Cls 6.3	P
		Test for Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	AASHTO T104:1999(2020)	P
		Test for Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	AASHTO T 176- 2017(2021)	P
		Test for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	AASHTO T96:2002(2019)	P
		Test for Specific Gravity and Absorption of Coarse Aggregate	AASHTO T 85-2021	P
		Determination of particle size distribution - Sieving method	EN 933-1:2012	P
		Particle shape - Flakiness index	EN 933-3:2012	P
		Shell content - Percentage of shells in coarse aggregates	EN 933-7:1998	P
		Test on Soundness of Aggregate Using Sodium Sulfate or Magnesium Sulfate: A Study of the Mechanisms of Damage	ASTM C 88-2018	P
Specific gravity, Density and water absorption of Coarse Aggregates	ASTM C 127-2015	P		



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Physical	Aggregates	Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C 128-2015	P
		Sieve Analysis of Fine and Coarse Aggregates	ASTM C 136/C 136-2019	P
		Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419-2014	P
		Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131/C131-2020	P
		Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C 535-2016	P
	Asphalt	Determination of Density	BS 812 Part 2-1995 Cls 5.7	P
		Test for Sieve Analysis of Mineral Filler for Hot-Mix Asphalt (HMA)	AASHTO T 37-2007(2020)	P
		Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	ASTM D 2726-2021	S
		Determining Degree of Pavement Compaction of Bituminous Aggregate Mixtures	AASHTO T230-1968 (2000)	P
		Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus	AASHTO T245-2015(2019)	P
		Bulk Specific Gravity (Gmb) of Compacted Hot Mix Asphalt (HMA) Using Saturated Surface-Dry Specimens	AASHTO T 166-2021 Additional	P
		Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D3549/D3549-2018	P
		Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus	ASTM D 6926-2020	P
		Test Method for Marshall Stability and Flow of Asphalt Mixtures	ASTM D 6927-2015	P
		Voids in total mix, Voids in Mineral aggregate, Voids filled with Bitumen (By computation)	DMS-09	P
		Quantitative Extraction of Asphalt Binder from Hot-Mix Asphalt (HMA)	AASHTO T164-14(2018)	P



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Physical	Asphalt	Mechanical Analysis of Extracted Aggregate	AASHTO T30-2021	P
		Test Method for Mechanical Size Analysis of Extracted Aggregate	ASTM D 5444-2015	P
		Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures	ASTM D2041-2019	P
	Concrete	Dimension of Kerb stone	BS 7263 Part :1994 Annex A	P
		Transverse strength of Kerb stone	BS 7263 Part 1: 1994 Annex B	P
		Sampling and Testing of Concrete Masonry Units and Related Units- Water Absorption, Moisture content and Density	ASTM C140/C140M-2022	P
		Determination of Flexural strength of test specimen	BS EN 12390-5:2019	P
		Testing Concrete in structures part 1 Cored Specimens -Taking-examining and testing in compression	BS EN 12504-1 2019	P
		Precast Concrete Paving Blocks Part 1 - Compressive strength of pre-cast concrete paving blocks	BS 6717 Part 1 : 1993 Annex B	P
		Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading)	ASTM C 293/C 293M:2016	P
		Testing Of Hardened Concrete (Specimens Prepared InMold)	DIN 1048 Part 5 : 1991, Cls.7.6	P
		Measurement of Bending strength – Kerb stone Annex F	BS EN 1340:2003	P
		Determination of Total water Absorption Kerbstone – Annex E	BS EN 1340:2003	P
		Paving blocks – Measurements of dimensions	BS 6717 part 1 annex A: 1993	P
		Recommendation for the assessment of Concrete Strength by near -to-Surface Tests	BS 1881 Part 207:1992	S
		Testing concrete in structures. Non-destructive testing - Determination of rebound number	BS EN 12504-2:2012	S
		Determination of Ultrasonic Pulse Velocity	BS EN 12504-4:2021	S
Compressive strength of cubes	BS EN 12390-3:2019	P		



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Physical	Concrete	Testing hardened concrete Shape, dimensions and other requirements for specimens and molds	BS EN 12390-1:2021	P
		Testing hardened concrete Making and curing specimens for strength tests	BS EN 12390-2:2019	P
		Testing hardened concrete- Density of hardened concrete	BS EN 12390-7:2019	P
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C 1202-2019	P
		Depth of penetration of water under pressure	EN 12390-8:2019	P
		Testing concrete Method for determination of water absorption	BS 1881-122:2011+A1: 2020	P
		Testing concrete. Recommendation for the determination of the initial surface absorption of concrete	BS 1881-208:1996	P
	Coatings	Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers	ASTM D 7234:2021	S
	Fresh Concrete	Testing fresh concrete- Air content	BS EN 12350-7:2019	S
		Bleeding of Concrete	ASTM C 232/C232M : 2021	S
		Time of Setting of Concrete Mixtures by Penetration Resistance	ASTM C 403/C 403 M : 2016	S
		Testing fresh concrete-Density	BS EN 12350 Part 6: 2019	S
		Determination of Sampling of Fresh Concrete	BS EN 12350 -1:2019	S
		Determination of Temperature & Slump test	BS EN 12350 -2:2019	S
		Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C1064/C1064M-2017	S
	Soil	Determining the Liquid Limit	AASHTO T89-2013(2021)	P
		Test for Determining the Plastic Limit and Plasticity Index of Soils	AASHTO - T90-2020	P
		Classification Tests - Determination of Linear Shrinkage	BS 1377:Part 2-1990	P



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Physical	Soil	Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.)	AASHTO -T180-2021	P
		Test for The California Bearing Ratio	AASHTO T193-2013(2021)	P
		Standard Specification for Classification of Soils and Soil-Aggregate Mixtures	AASHTO M145-1991(2021)	P
		Determination of In-situ density by sand replacement method	BS 1377-9:1990, Clause 2.2	S
		Laboratory Compaction Characteristics of Soil Using Modified Effort	ASTM D 1557-2012 (2021)	P
		Determination of particle size distribution	BS 1377-9:1990 part 2, Cls 9.2 & 9.3 /	P
		California Bearing Ratio (CBR) of Laboratory-Compacted Soils	ASTM D 1883-2021	P
		Density and Unit Weight of Soil in Place by Sand-Cone Method	ASTM D1556/D1556M-2015	S
	Coatings	Pull-Off Strength of Coating Using Portable Adhesion Testers	ASTM D 4541:2017	S
	Paints & Varnishes	Paints and varnishes. Determination of film thickness	BS EN ISO -2808: 2019	S
<b>END</b>				