

Accreditation Scope

Capital Survey, NAL 078
Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah M-39, Abu Dhabi, UAE

Issue Date: 31-05-2020

Expiry Date: 19-05-2021

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)
Chemical	Soil	Acid Soluble Chloride Content	BS 1377-3:2018 Cl. 9.3	P
		Acid Soluble Sulphate Content	BS 1377-3:2018 Cl. 7.6/ 7.9	
		Carbonate Content	BS 1377-3:2018 Cl. 8.3	
		pH	BS 1377-3:2018 Cl. 12	
		Water Soluble Chloride Content	BS 1377-3:2018 Cl. 9.2	
		Water Soluble Sulphate Content	BS 1377-3:2018 Cl. 7.3/ 7.6	
		Water Soluble Salt Content	BS 1377-3:2018 Cl. 11 & Earth Manual Des. 8	
		Organic Matter Content	BS 1377-3:2018 Cl. 4.5.6	
	Ground Water	Chloride Content	BS 1377-3:2018 Cl. 9.2	P
		Sulphate Content	BS 1377-3:2018 Cl. 7.8/ 7.6	
		pH	BS 1377-3:2018 Cl. 12	
		Total Dissolved Solids	BS 1377-3:2018 Cl. 11	
	Concrete	Acid Soluble Chloride Content	BS 1881-124:2015 Cl. 12.1	P
		Acid Soluble Sulphate Content	BS 1881-124:2015 Cl. 12.2	
	Aggregates	Chloride Contents of Aggregates Using a Nitric Acid Extract	*BS 812-117:1988 Appendix C BS EN 1744-1:2009+ A1:2012	P
		Organic Impurities in Fine Aggregates for Concrete	ASTM C40/C40M-20	
		Total Sulphate Content by Acid Extraction	*BS 812-118:1988 Cl. 6 BS EN 1744-1:2009+ A1:2012	
	UPVC Pipes	Evaluation the Resistance of Plastics to Chemical Reagents	ASTM D543-20	P

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Physical	Aggregates	Flakiness Index	BS 812-105.1:1989	P
		Elongation Index	*BS 812-105.2:1990	
		Particle Size Distribution	*BS 812-103.1:1985 Amd 6003:1989 BS EN 933-1:2012	
		Sieve Analysis	ASTM C136/C136M-19	
		Aggregate Impact Value	BS 812-112:1990 Amd 8772:1995	
		Clay Lumps & Friable Particles	ASTM C142/C142M-17	
		Aggregate Crushing Value	BS 812-110:1990	
		Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	ASTM C127-15	
		Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C128-15	
		Materials Finer Than 75 µm (No. 200) Sieve in Mineral Aggregates by Washing	ASTM C117-17	
		Moisture Content	BS 812-109:1990 BS EN 1097-5:2008	
		Particle Density & Water Absorption of Aggregates (Wire Mesh Method)	BS 812-2:1995 Amd 10379:1999 Cl. 5.3	
		Resistance to Degradation of Small Size Coarse Aggregate by Abrasion & Impact in the Los Angeles Machine	ASTM C131/C131M-14	

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Physical	Aggregates	Shell Content in Coarse Aggregates	*BS 812-106:1985 BS EN 933-7:1998	P
		Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/C88M-18	
	Asphalt	Asphalt Marshal Properties	ASTM D6926-20 ASTM D6927-15	P
		Asphalt Content and Sieve Analysis of Extracted Aggregate (Ignition Method)	ASTM D 6307-19 Method A ASTM D 5444-15	
		Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	ASTM D2172/D2172M-17	
		Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	ASTM D2726/D2726M-19	
		Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D3549/D3549M-18	
		Distillation of Cutback Asphalt	ASTM D402/D402M-14	
	Hardened Concrete	Compressive Strength of Concrete Cube	*BS 1881-116:1983 Amd 6720:1991	P
		Density of Hardened Concrete	*BS 1881-114:1983 Amd 6721:1991	
		Normal Curing of Test Specimen	*BS 1881-111:1983 Amd 9387:1997	

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Physical	Hardened Concrete	Depth of Penetration of Water Under Pressure	BS EN 12390-8:2019	P
		Initial Surface Absorption of Concrete	BS 1881-208:1996	
		Water Absorption of Hardened Concrete	BS 1881-122:2011	
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration (RCP)	ASTM C1202-19	
		Rebound Number	BS EN 12504-2:2012	P / S
		Ultrasonic Pulse Velocity	BS EN 12504-4:2004	
	Concrete Cube, Core & Cylinder	Compressive Strength of Hardened Concrete	BS EN 12390-3:2019	P
		Density of Hardened Concrete	BS EN 12390-7:2019	
		Dimension of Hardened Concrete	BS EN 12390-1:2012	
		Normal Curing of Test Specimen	BS EN 12390-2:2019	
	Soil	Hydrometer Analysis. Determination of Distribution of Particle Size in Soil Smaller than 75 µm by Sedimentation	ASTM D7928-17	P
		California Bearing Ratio (CBR)	BS 1377-4:1990 Amd. 13925:2002 Cl. 7	
		Liquid Limit, Plastic Limit and Plasticity Index	BS 1377-2:1990 Amd 9027:1996 Cl. 4.5, 4.6 & 5 BS EN ISO 17892-12:2018	

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Physical	Soil	Liquid Limit, Plastic Limit and Plasticity Index	ASTM D4318-17	P
		Moisture Content	BS 1377-2:1990 Amd 9027:1996 Cl. 3.2 BS EN ISO 17892-1:2014	
		Particle Size Distribution	BS 1377-2:1990 Amd 9027:1996 Cl. 9 BS EN ISO 17892-4:2016	
		Particle Size Analysis	ASTM D6913/D6913M-17	
		Proctor Test. Laboratory Compaction Characteristics of Soil Using Modified Effort	ASTM D1557-12	P
		Field Density. Density and Unit Weight of Soil in Place by Sand- Cone Method	ASTM D1556/D1556M- 15e1	
		In-situ Density by Sand Replacement Method	BS 1377-9:1990 Cl. 2.2	
		Dry Density/ Moisture Content Relationship	BS 1377-4:1990 Amd 8264:1995 Cl. 3.5 and 3.6	S
		Penetration Resistance Using the Split-Barrel Sampler (SPT)	BS 1377-9:1990 Amd 8264:1995 Cl. 3.3 BS EN ISO 22476- 3:2005+A1:2011	
		Plate Load Test	BS 1377-9:1990 Cl. 4	
		In-situ California Bearing Ration (CBR)	BS 1377-9:1990 Cl. 4	

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Physical	Soil	Electrical Cone and Piezocone Penetration Test (CPT)	BS EN ISO 22476-1:2012	S
		Soil resistivity using the Wenner Four-electrode Method	ASTM G57-06(2012)	P / S
		Multichannel Analysis of Surface Wave (MASW)	CS-GP-MS-01, Issue 1 Issue date 24/11/2019	S
	Soils and Aggregates	Sampling of Soil and Aggregate	ASTM D75/D75M-19	P
		Sand Equivalent Value of Soil and Fine Aggregate	ASTM D2419-14	
	Soil and Rocks	Water (Moisture) Content	ASTM D2216-19	P
		Soil and Rock Description and Classification. Borehole Logging	BS 5930-2015 Cl. 32 to 36	P / S
		Water Permeability Tests in a Borehole Using Open Systems (Falling Head)	BS EN ISO 22282-2:2012	S
	Soils and Backfill	Thermal resistivity measurements	IEEE 442-2017	S
	Rocks	UCS Sample Preparation. Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-19	P
		Unconfined Compressive Strength. Compressive Strength and Elastic Moduli of Intact Rock Core Specimens Under Varying States of Stress and Temperatures	ASTM D7012-14	

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Physical	Rocks	Rock Quality Designation, Description of Rock Masses	BS 5930-2015 Cl. 36.4	P / S
		Core Recovery. Borehole Drilling	BS 5930-2015 Cl. 25.7	S
	Ground Water	Ground Water Leveling, Ground Water Table Checking	BS 5930-2015 Cl. 26.1 to 26.3	S
		Ground Water Sample Collection from Boreholes	BS 5930-2015 Cl. 26.4	
	Steel	Physical Properties Determination of Steel Reinforcement Bar	BS 4449:2005+A3:2016	P
	Bitumen	Penetration of Bituminous Materials	ASTM D5/D5M-19a	P
		Softening Point of Bitumen (Ring & Ball Apparatus)	ASTM D36/D36M-14 ^{e1}	
		Preformed Expansion Joint Fillers for Concrete Construction (Non-extruding and Resilient Types)	ASTM D545-19, procedure 7.5	
		Ignition Loss of Cured Reinforced Resins	ASTM D2584-18	
		Ductility	ASTM D113-17	
	Bituminous Sheet	Sampling & Testing Modified Bituminous Sheet Material	ASTM D5147/D5147M-18	P
	Geo Textile	Geosynthetics Wide width tensile test	BS EN ISO 10319:2015	P
		Geosynthetics Static puncture test (CBR test)	BS EN ISO 12236:2006	

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Physical	Paving Units	Density, Water Absorption, Measurement of Dimensions & Compressive Strength of Concrete Inter Locking Paving Units	ASTM C140/C140M-20	P
		Flexural Strength of Concrete (Using Simple Beam with Center-Point Loading)	ASTM C293/C293M-16	
	Concrete Paving Flags, Kerbs & Channels	Water Absorption and Transverse Strength of Precast Concrete Paving Flags, Kerbs & Complementary Fittings	*BS 7263-1:1994 BS 7263-1:2001	P
	Concrete Paving Flags	Water Absorption of Concrete Paving Flags	BS EN 1339:2003	P
	Concrete Paving Flags, & Channels	Transverse Strength of Unreinforced Concrete Paving Flags and Complementary Fittings	BS EN 1339:2003	P
	HDPE	Tensile Strength and Failure Mode of Test Pieces From A=a Butt-Fused Joint	BS ISO 13953:2001	P
	GRP, Plastic & UPVC Pipes	Tensile Properties of Plastics	ASTM D638-14	P
	GRP		External Loading Characteristics of Plastic Pipe By Parallel-Plate Loading (Stiffness)	ASTM D2412-11(2018)
Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor			ASTM D2583-13a	

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Physical	GRP	Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	ASTM D790-17	P
		Dimensions	ASTM D3567-17	
	UPVC Pipes	Vicat Softening Temperature	ASTM D1525-17e1 BS EN ISO 2507-1:2017	P
		Tensile Properties – Tensile and Elongation	ISO 6259-1:2015 ISO 6259-2:1997	
		Dimensions	BS 3506:1969	
		Opacity	ISO 7686:2005	
		Density	ISO 1183-1:2019	
		Resistance to Internal Pressure (Hydrostatic)	ISO 1167-1:2006	
	Olefin Plastics	Carbon Black Content	ASTM D1603-14	P
	Joint Filler Board	Preformed Expansion Joint Fillers for Concrete Construction (Non-Extruding and Resilient Types) by Recovery and Compression	ASTM D545-19, procedure 7.2	P
		Preformed Expansion Joint Fillers for Concrete Construction (Non-Extruding and Resilient Types) by Extrusion	ASTM D545-19, procedure 7.3	
		Preformed Expansion Joint Fillers for Concrete Construction (Non-Extruding and Resilient Types) by Water Absorption	ASTM D545-19, procedure 7.6	

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Physical	Joint Filler Board	Preformed Expansion Joint Fillers for Concrete Construction (Non-Extruding and Resilient Types) by Density	ASTM D545-19, procedure 7.7	P
		Preformed Expansion Joint Fillers for Concrete Construction (Non-Extruding and Resilient Types) by Thickness	ASTM D545-19, procedure 6.3	
	Warning Tape	Thickness by Mechanical Scanning of Flexible Sheet	BS 2782-6:1994 Method 630A	P
		Tensile Properties of Thin Plastic Sheeting (Tensile and Elongation)	ASTM D882-18	
		Tear Resistance	ISO 6383-2:2004	
		Impact Resistance by the Free- Falling Dart Method (Instrumented Puncture Test)	BS 2782-3:1996 Method 352F	
	Geotextile	Measuring Mass per Unit Area	ASTM D5261-10(2018)	P
		Apparent Opening Size	ASTM D4751-20	
		Water Permeability of Geotextiles by Permittivity	ASTM D4491/D4491M-17	
		Grab Breaking Load and Elongation	ASTM D4632/D4632M- 15a	
		Trapezoid Tearing Strength	ASTM D4533/D4533M-15	

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Physical	Waterproofing membrane	Tensile Properties (Tensile and Elongation)	BS EN 12311-1:2000	P
		Tensile-Tear Strength of Bituminous Roofing Membranes	ASTM D4073/D4073M- 06(2019)	
		Thickness and Mass per Unit Area	BS EN 1849-1:2000	
		Water Absorption of Plastics	ASTM D570-98(2018)	
Geotechnical	Soil, Rock and Ground Water	Reporting - Soil Investigation	BS 5930-2015 Cl. 63	P
	Soils	Soil Sampling. Borehole Drilling and Sampling	BS 5930-2015; Cl. 25	
END				

* Standards are superseded and/or withdrawn status.