

# Accreditation Scope

**Independent Soil Testing Laboratories LLC, NAL 135  
Testing Laboratory, (ISO/IEC 17025:2017)**

**M10, W53, Mussafah, Abu Dhabi, UAE**

**Issue Date: 09-02-2021**

**Expiry Date: 08-09-2022**

**Issue No: 02**

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	Hardened Concrete	Dimension of concrete cube	BS EN 12390-1:2012	P
		Curing of concrete cube	BS EN 12390-2:2019	
		Density	BS EN 12390-7:2019	
		Compressive strength of concrete cube	BS EN 12390-3:2019	
		Water Absorption of concrete	BS 1881-122:2011	
		Rapid Chloride Permeability	ASTM C1202:2019	
		Determination of Depth of Penetration of Water under Pressure	BS EN 12390-8:2019	
	Concrete Products	Masonry Blocks-Dimensions	BS 6073-1:1981 (2003) Appendix A	P
		Masonry Blocks- Compressive strength	BS 6073-2:1981 (2003) Appendix B	
		Paving Blocks-Dimensions	BS EN 1338:2003	
		Paving Blocks- Compressive strength	BS 6717-1:1993 Annex B	
		Paving Blocks- Abrasion Resistance (Sand Blasting)	ASTM C418-12	
		Paving Blocks- Abrasion Resistance (Wide Wheel Abrasion)	BS EN 1338:2003	
		Paving Blocks- Water Absorption	ASTM C140/C140M-2020a	
		Paving Blocks- Density & Relative Density	ASTM C140/C140M-2020a	
		Paving Blocks- Flexural Strength	ASTM C293/C293M-16	
		Paving Blocks- Tensile Splitting	BS EN 1338:2003	

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Material Testing	Concrete Products	Kerbstone- Water Absorption	BS EN 1340:2003	P
		Kerbstone- Bending Strength		
		Kerbstone- Abrasion Resistance (Wide Wheel Abrasion)		
	Ceramic Tiles	Ceramic Tiles- Dimension	BS EN 10545-2:2018	P
		Ceramic Tiles- Modulus of Rupture	BS EN 10545-4:2019	
	Cement	Standard Consistency	BS EN 196-3:2016	P
		Initial Setting Time		
		Final Setting Time		
	Steel Reinforcement & products	Rebar Tensile Strength	BS EN ISO 15630-1:2019	P
		Rebar Yield Strength		
		Rebar Elongation		
		Rebar Bend Test		
		Rebar Re- Bend test		
	Soil	Strand Wire- Tensile Strength	ASTM A1061/A1061M-16	
		Soil-In-Situ Density by Large Pouring Cylinder	BS 1377-9:1990 Cl. 2.2	S
		Soil- MDD & OMC Relationship	BS 1377-4:1990 Cl. 3.5/3.6	P
Soil- Thermal Conductivity		ASTM D5334-14	P / S	
	Determination of California Bearing Ratio	BS 1377-4:1990 Cl. 7.2.3 AMD 13925 - 2002	P	

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Geotechnical Testing	Soil	Determination of Penetration Resistance using Split Barrel Sampler	BS 1377-9:1990 Cl. 3.3 AMD 8264:1995 (Partially replaced, Superseded)	S
	Ground Water	Ground Water Level Measurement	BS 5930:2015 Cl. 52.2, 52.3, 52.5 and 52.10	
		Ground Water Sampling	BS 5930:2015 Cl. 26.4	
	Soil and Rock	Soil and Rock Sampling	BS 5930:2015 Cl. 25	P / S
		Soil and Rock Description	BS 5930:2015 Cl. 33 and 36	
	Rock	Rock Quality Designation	BS 5930:2015 Section 6	
		Core Recovery	BS 5930:2015 Section 6	
	Soil	Particle Size Distribution	BS EN ISO 17892-4:2016	P
		Particle Size Analysis	ASTM D6913/D6913M-17	
		Determination of Particle Size Distribution by Hydrometer Method	BS EN ISO 17892-4:2016	
		Determination of Liquid Limit	BS EN ISO 17892-12:2018	
		Determination of Plastic Limit and Plasticity Index	BS EN ISO 17892-12:2018	

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Geotechnical Testing	Soil	Determination of Water (Moisture) Content of Soil sample	BS 1377-2:1990 Cl. 3.2 AMD 9027-1996 BS EN ISO 17892-1:2014	P
	Soil & Rock	Determination of Water (Moisture) Content of soil & Rock sample	ASTM D2216:19	
	Rock	Preparation of Rock Core	ASTM D4543:19	
		Unconfined Compressive Strength	ASTM D 7012:2014E1, Method C	
	N/A	Reporting	BS 5930:2015 Section 10	P
Chemical Testing	Soil	Determination of the pH value of Soil	BS 1377-3:2018 Cl. 12	P
		Determination of Water-Soluble Sulphate in soil	BS 1377-3:2018 Cl. 7.3, 7.6	
		Determination of Acid Soluble Sulphate	BS 1377-3:2018 Cl. 7.9, 7.6	
		Determination of Water-Soluble Chloride Content	BS 1377-3:2018 Cl. 9.2	
		Determination of Acid Soluble Chloride Content	BS 1377-3:2018 Cl. 9.3	
	Groundwater	Determination of the pH value of Groundwater	BS 1377-3:2018 Cl. 12	P
		Determination of Sulphate Content of Groundwater	BS 1377-3:2018 Cl. 7,8 7.6	
		Determination of Chloride content in Ground Water	BS 1377-3:2018 Cl. 9.2.7	

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Material Testing	Aggregate	Micro Deval Test	ASTM D6928-17	P
		Particle Size Distribution	BS EN 933-1:2012	
		Clay Silt & Dust	BS EN 933-1:2012	
		Material Finer than 75 Micron	ASTM C 117:2017	
		Particle Density and Water Absorption	BS EN 1097-6:2013	
		Shell Content	BS EN 933-7:1998	
		Flakiness Index	BS EN 933-3:2012	
		Elongation Index	BS 812-105.2:1990	
		Los Angeles Abrasion	AASHTO T 96-02	
		Determination of Clay Lumps and Friable Particles	ASTM C 142:2017	
	Asphalt & Bitumen	Asphalt Mixture- Bitumen content	ASTM D2172/D2172M-17e1	P
		Asphalt Mixture- Grading	ASTM D5444-15	
		Bitumen- Softening Point (Ring & Ball)	ASTM D36/D36M-14e1	
		Bitumen- Penetration	ASTM D5/D5M-2020	
	Asphalt	Preparation of Asphalt Mixture Specimens Using Marshall Apparatus	ASTMD6926-16	P
Marshall Stability and Flow of Asphalt Mixtures		ASTM D6927-15		
Thickness or Height of Compacted Asphalt Mixture Specimens		ASTM D3549-18		

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Material Testing	Water proofing Membrane	Tensile Strength	ASTM D5147/D5147M-18	P
		Elongation	ASTM D5147/D5147M-18	
		Resistance to Puncture	ASTM E154/E154M-2019 cl.10	
		Determination of Mass per unit Area	BS EN 1849-1-2000	
	Determination of Water Absorption	ASTM D570-98(2018)		
	Mortar- Grout	Pull off Strength	BS 1881-207:1992 Cl. 8	P / S
	Geotextile	Tensile Strength	BS EN ISO 10319:2015	P
		Elongation		
		Puncture Resistance	BS EN ISO 12236:2006	
		Mass per Unit Area	ASTM D 5261-10(2018)	
	GRP	Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor	ASTM D2583-13a	P
		Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials	ASTM D790-17	
	UPVC Pipe	Dimension	BS 3126:2005	P
		Tensile	ISO 6259-2:1997	
		Elongation		

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Material Testing	GRC	Characteristics Limit of Proportionality (LOP)	BS EN 1170-5:1998	P
		Characteristic Modulus of Rupture (MOR)		
		Dry Bulk Density	BS EN 1170-6:1998	
		Water Absorption		
	Rubber - Water Stopper	Shore A & D Hardness	ASTM D 2240-16	P
	Joint Filler Board	Density	ASTM D 545-19	P
	HDPE Pipe	Dimension	BS EN ISO 3126:2005	P
		Tensile Properties	ISO 13953:2001	
		Elongation Percentage	ASTM D3350-14	
	HDPE Liner & EPDM	Density	ASTM D 792-2020	P
	Self-Adhesive Membrane	Water Absorption	ASTM D 5147-18	
		Puncture Resistance	ASTM E 154-08a (19e1)	
	Warning Tape	Tensile Properties	ASTM D 882-18	P
Textile Fabric	Breaking Strength & Elongation of Textile fabrics (Grab Test)	ASTM D 5034-09 (2017)	P	

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Material Testing	Geostap	Tensile Load	ASTM D 4595-17 / ISO 10319-2015	P
		Thickness	ASTM D 5199-12 (2019)	
	Geogrid	Tensile Strength	ASTM D6637/D6637M-15	P
		Elongation	ASTM D6637/D6637M-15	
	Road Marking Material	Luminance Factor	BS EN 1436:2018 Annex C	P / S
		Retro Reflectance (Qd & R2)	BS EN 1436:2018	
	DI Duct / Manhole Cover	Load Test Deflection	BS EN 124-1:2015	P
	Miscellaneous Material	Exposed Surface- SRI (Solar Reflectance Index)	ASTM E1980-19	P / S
		Material -Thermal Conductivity by Heat Flow Meter	ASTM C518-17	P
	Wood	Bending strength	ASTM D 4761-19	P
Marble- Dimension stone	Water Absorption	ASTM C 97/C97M	P	
<b>END</b>				