



# Accreditation Scope

**Jacob Independent Building Material Testing Lab LLC, NAL 220**  
**Testing Laboratory, (ISO/IEC 17025:2017)**

**Abu Dhabi - Plot No. 13 Al Noud, Wadi Al Ain 1, 13 Warehouse No.7 - Al Noud Wadi Al Ain 1, Abu Dhabi,  
United Arab Emirates**

**Issue Date: 06/09/2024**

**Expiry Date: 05/09/2027**

**Issue No: 1**

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 and building	Aggregate	Flat particle elongated particle	ASTM D4791-19	P
Construction materials and building	Aggregate	Specific Gravity and Absorption of fine Aggregate	AASHTO T 84-13(2021)	P
Construction materials and building	Aggregate	Clay Lumps and Friable Particles in Aggregate	AASHTO T 112-21	P
Construction materials and building	Aggregate	Materials Finer Than 75- $\mu$ m (No. 200) Sieve in Mineral Aggregates by Washing	AASHTO T 11-20	P
Construction materials and building	Aggregate	Percentage of Fracture in Coarse Aggregate	AASHTO T 335-09 (2018)	P
Construction materials and building	Aggregate	Aggregate -Particle Size Distribution	BS EN 933-1:2012	P
Construction materials and building	Aggregate	Aggregate -Particle Density and Water Absorption	BS EN 1097-6:2013	P

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Construction materials and building	Aggregate	Sieve Analysis of Fine and Coarse Aggregates	AASHTO T 27-20	P
Construction materials and building	Aggregate	Bulk Density	BS 812-2:1995	P
Construction materials and building	Aggregate	Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate	AASHTO T 104-99 (2020)	P
Construction materials and building	Aggregate	Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test	AASHTO T 176-17(2021)	P
Construction materials and building	Aggregate	Aggregate -Los Angeles Abrasion	AASHTO T 96-02(2019)	P
Construction materials and building	Aggregate	Specific Gravity and Absorption of Coarse Aggregate	AASHTO T 85-21	P
Construction materials and building	Aggregate	Aggregate -Clay Silt & Dust	BS EN 933-1:2012	P
Construction materials and building	Aggregate	Aggregate -Flakiness Index	BS EN 933-3:2012	P
Construction materials and building	Aggregate	Aggregate -Shell Content	BS EN 933-7:1998	P

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Construction materials and building	Aggregate	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/C88M-18	P
Construction materials and building	Aggregate	Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	ASTM C127-15	P
Construction materials and building	Aggregate	Relative Density (Specific Gravity) and Absorption of Fine Aggregate	ASTM C128-15	P
Construction materials and building	Aggregate	Sieve Analysis of Fine and Coarse Aggregates	ASTM C136/C136M-19	P
Construction materials and building	Aggregate	Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419-14	P
Construction materials and building	Aggregate	Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131/C131M-20	P
Construction materials and building	Aggregate	Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C535-16	P

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Construction materials and building	Aggregate	Aggregate -Flakiness Index	BS 812-105.1:1989	P
Construction materials and building	Aggregate	Aggregate - Elongation Index	BS 812-105.2:1990	P
Construction materials and building	Aggregate	Shell Content	BS 812-106:1985	P
Construction materials and building	Aggregate	Light Weight Particles	ASTM C123/C123M-23	P
Construction materials and building	Asphalt	Determination of particle density of filler	BS 812-2:1995 Cls 5.7	P
Construction materials and building	Asphalt	Sieve Test	AASHTO T 37-07(2020)	P
Construction materials and building	Asphalt	Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	ASTM D2726/D2726M-21	P
Construction materials and building	Asphalt	Degree of compaction	AASHTO T 230-68(2000)	P
Construction materials and building	Asphalt	Stability and Flow	AASHTO T 245-22	P
Construction materials and building	Asphalt	GMB (Density)	AASHTO T 166-22	P

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Construction materials and building	Asphalt	Thickness or Height of Compacted Asphalt Mixture Specimens	ASTM D3549/D3549M-18	P
Construction materials and building	Asphalt	Preparation of Asphalt Mixture Specimens using Marshall Apparatus	ASTM D6926-20	P
Construction materials and building	Asphalt	Marshall Stability and Flow of Asphalt Mixtures	ASTM D6927-15	P
Construction materials and building	Asphalt	Computation of voids in compacted bituminous paving mixture	DMS 009:2001 (R2007)	P
Construction materials and building	Asphalt	Extraction Bitumen Content	AASHTO T 164-22	P
Construction materials and building	Asphalt	Mechanical Analysis (Grading)	AASHTO T 30-2021	P
Construction materials and building	Asphalt	Asphalt Mixture - Grading	ASTM D5444-15	P
Construction materials and building	Asphalt	Determination of Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures	ASTM D2041/D2041M-19	P

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Construction materials and building	Asphalt	Bitumen -Softening point (Ring & Ball)	AASHTO T53-22	P
Construction materials and building	Asphalt	Bitumen -Penetration	AASHTO T 49-15(2019) ASTM D5/D5M-20	P
Construction materials and building	Asphalt	Loss of Stability	DMS 10-2001	P
Construction materials and building	Asphalt	International Roughness Index (IRI)	ASTM E950/E950M-09(2018)	S
Construction materials and building	Concrete	Precast concrete flags, kerbs, channels, edgings and quadrants - Measurement of dimensions	BS 7263 Part 1 : 1994 Annex A	P
Construction materials and building	Concrete	Precast concrete flags, kerbs, channels, edgings and quadrants - Determination of transverse strength	BS 7263 Part 1 : 1994 Annex B	P
Construction materials and building	Concrete	Masonry blocks- Water absorption/Density	ASTM C140/C140M-22b	P

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Construction materials and building	Concrete	Testing hardened concrete Flexural strength of test specimens	BS EN 12390-5:2019	P
Construction materials and building	Concrete	Testing concrete in structures Cored specimens. Taking, examining and testing in compression	BS EN 12504-1:2019	P
Construction materials and building	Concrete	Paving Blocks - Compressive Strength	BS 6717-1:1993 Annex B	P
Construction materials and building	Concrete	Flexural Strength of Concrete (Using Simple Beam with Centre-Point Loading)	ASTM C293/C293M-16	P
Construction materials and building	Concrete	Water Permeability	DIN 1048-5:1991 Cls 7.6	P
Construction materials and building	Concrete	Kerbstone -Water Absorption	BS EN 1340:2003 (Amd.16468:2006), Annex E	P
Construction materials and building	Concrete	Kerbstone -Bending Strength & Dimension	BS EN 1340:2003 (Amd.16468:2006), Annex F & C.2	P

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Construction materials and building	Concrete	Paving block-measurements of dimensions	BS 6717 Part 1 : 1993 Annex A	P
Construction materials and building	Concrete	Pull out test	BS 1881-207:1992, Cls.7	S
Construction materials and building	Concrete	Testing concrete in structures. Nondestructive testing - Determination of rebound number	BS EN 12504-2:2021	S
Construction materials and building	Concrete	Ultrasonic Pulse Velocity	BS EN 12504-4:2021	S
Construction materials and building	Concrete	Testing hardened concrete Compressive strength of test specimens	BS EN 12390-3:2019	P
Construction materials and building	Concrete	Testing hardened concrete Shape, dimensions and other requirements for specimens and moulds	BS EN 12390-1:2021	P
Construction materials and building	Concrete	Testing hardened concrete Making and curing specimens for strength tests	BS EN 12390-2:2019	P

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Construction materials and building	Concrete	Testing hardened concrete Density of hardened concrete	BS EN 12390-7:2019	P
Construction materials and building	Concrete	Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C 1202-22	P
Construction materials and building	Concrete	Depth of Penetration of Water Under Pressure	BS EN 12390-8:2019	P
Construction materials and building	Concrete	Testing concrete Method for determination of water absorption	BS 1881-122:2011+A1:2020	P
Construction materials and building	Concrete	Testing concrete Recommendations for the determination of the initial surface absorption of concrete	BS 1881-208:1996	P
Construction materials and building	Fresh Concrete	Testing fresh concrete Air content. Pressure methods	BS EN 12350-7:2019	S
Construction materials and building	Fresh Concrete	Standard Test Method for Bleeding of Concrete	ASTM C232/C232M-20a	S

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Construction materials and building	Fresh Concrete	Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance	ASTM C403/C403M-16	S
Construction materials and building	Fresh Concrete	Testing fresh concrete Density	BS EN 12350-6:2019	S
Construction materials and building	Fresh Concrete	Testing fresh concrete Sampling and common apparatus	BS EN 12350-1:2019	S
Construction materials and building	Fresh Concrete	Testing fresh concrete Slump test	BS EN 12350-2:2019	S
Construction materials and building	Fresh Concrete	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C1064/C1064M-23	S
Construction materials and building	Soil	Liquid Limit of Soils	AASHTO T 89-13 (2021)	P
Construction materials and building	Soil	Plastic Limit and Plasticity Index of Soils	AASHTO T 90-20	P

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Construction materials and building	Soil	Water (Moisture) Content of Soil Sample	BS 1377-2:2022, Cls 4 BS EN ISO 17892-1:2014+A1:2022	P
Construction materials and building	Soil	Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop	AASHTO T 180-21	P
Construction materials and building	Soil	California Bearing Ratio	AASHTO T 193-13 (2021)	P
Construction materials and building	Soil	Soil Classification	AASHTO M 145-91(2021)	P
Construction materials and building	Soil	Soil -In Situ Density by Large Pouring Cylinder	BS 1377-9:1990 Amd.17229-2007 Cls 2.2	S
Construction materials and building	Soil	Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft <sup>3</sup> (2,700 kN-m/m <sup>3</sup> ))	ASTM D1557-12(2021)	P
Construction materials and building	Soil	Particle size distribution	BS 1377-2:2022, Cls.10 BS EN ISO 17892-4:2016 Cls. 5.2	P

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Construction materials and building	Soil	California Bearing Ratio (CBR)	ASTM D 1883-2021	P
Construction materials and building	Soil	Density and Unit Weight of Soil in Place by Sand-Cone Method	ASTM D1556/D1556M-15e1	P
Construction materials and building	Paints and Varnishes	Determination of film thickness	BS EN ISO 2808:2019	P
Construction materials and building	Coatings	Pull-Off Adhesion strength of coatings on concrete using portable pull-off adhesion testers	ASTM D 7234:2021	S
Construction materials and building	Coatings	Pull-Off Strength of Coatings using portable adhesion testers	ASTM D 4541:2022	S
Construction materials and building	Masonry Blocks	Masonry Blocks - Dimension	BS 6073-1:1981 (Amd.14523:2003) Appendix A	P
Construction materials and building	Masonry Blocks	Masonry Blocks - Compressive Strength	BS 6073-2:1981 (Amd.4508:1984) Appendix B	P
Construction materials and building	Masonry Blocks	Masonry blocks- Water absorption/Density	ASTM C140/C140M-22b	P

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Construction materials and building	Cement	Flow	ASTM C939/C939M-22	S
Construction materials and building	Cement	Bleeding	ASTM C940-22	S
Construction materials and building	Cement	Volume change	ASTM C1090/C1090M-23	S
Construction materials and building	Water	Determination of pH	ASTM D1293-18	P
Construction materials and building	Water	Determination of Filterable Matter (Total Dissolved Solids) in water	ASTM D5907-18, Method A	P
Construction materials and building	Water	Determination of Chloride ion in water	ASTM D512-23, Method B	P
Construction materials and building	Water	Determination of Sulphate ion in water	ASTM D516-22	P
Construction materials and building	Aggregate	Acidity /Alkalinity of Water	ASTM D1067-16, Method B	P
Construction materials and building	Aggregate	Organic Impurities in Fine Aggregate for Concrete	ASTM C40/C40M-20, Cl. 10.1	P
Construction materials and building	Concrete	Determination of Chloride Content in Hardened Concrete	BS 1881-124:2015+A1:2021 Cl.12.1	P

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Construction materials and building	Concrete	Determination of Sulphate Content in Hardened Concrete	BS 1881-124:2015+A1:2021 Cl.12.2	P
Construction materials and building	Concrete	Testing for Chloride ion in Concrete	AASHTO T 260-21, Method 1	P
Construction materials and building	Soil	pH value of Soil	BS 1377-3:2018+A1:2021, Cl.12	P
Construction materials and building	Soil	Water Soluble Sulphate in Soil	BS 1377-3:2018+A1:2021, Cl.7.2, 7.3, 7.6	P
Construction materials and building	Soil	Acid Soluble Sulphate in Soil	BS 1377-3:2018+A1:2021, Cl.7.2, 7.9, 7.6	P
Construction materials and building	Soil	Water Soluble Chloride in Soil	BS 1377-3:2018+A1:2021, Cl.9.2	P
Construction materials and building	Soil	Acid Soluble Chloride in Soil	BS 1377-3:2018+A1:2021, Cl.9.3	P
Construction materials and building	Soil	Determination of Organic Matter Content	BS 1377-3:2018+A1:2021, Cl.4.0	P

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Construction materials and building	Soil	Determination of Moisture, Ash and Organic Matter of Peat & other Organic Soils.	ASTM D2974-20e1, Method A	P
Construction materials and building	Soil	Determination of Organic Content in Soils by Loss On Ignition	AASHTO T 267-22	P
Construction materials and building	Soil	Determination of Water Soluble Chloride	AASHTO T 291-22 Method A	P
Construction materials and building	Soil	Determination of Water Soluble Sulphate	AASHTO T 290-95(2020), Method A	P
Construction materials and building	Soil	Determination of Water Soluble Salt	USBR 5450- 89	P
Construction materials and building	Soil	Determination of Carbonate as CO2	BS 1377-3:2018+A1 2021, Cl.8.3	P
Construction materials and building	Soil	Gypsum Content of Soil as CaSO4	BS 1377-3:2018+A1:2021, Cl. 7.2, 7.9, 7.6 + Calculation	P
Construction materials and building	Groundwater	pH value of Groundwater	BS 1377-3:2018+A1:2021, Cl.12	P

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Construction materials and building	Groundwater	Sulphate Content of Groundwater	BS 1377-3:2018+A1:2021, Cl.7.2, 7.8, 7.6	P
Construction materials and building	Groundwater	Chloride Content of Groundwater	BS 1377-3:2018+A1:2021, Cl.9.2.7	P
Construction materials and building	Aggregate	Methylene Blue Absorption	BS EN 933-9:2022	P
Construction materials and building	Aggregate	Determination of Acid Soluble Chloride	BS 812 Part 117:1988, Appendix C	P
Construction materials and building	Aggregate	Determination of Acid Soluble Sulphate	BS 812 Part 118:1988, Cl.6.0	P
Construction materials and building	Aggregate	Determination of Water Soluble Chloride	BS 812 Part 117:1988	P
Construction materials and building	Aggregate	Determination of Water Soluble Sulphate	BS 812 Part 118:1988, Cl.5.0	P
Construction materials and building	Aggregate	Acid Soluble Materials	BS 812-119:1985	P
Construction materials and building	Aggregate	Potential Alkali-Silica Reactivity of Aggregates(Chemical Method)	ASTM C289-07, Clause 7,8.1,8.2,8.4	P
Construction materials and building	Bitumen	Flash Point ( COC )	AASHTO T 48 -22 AASHTO T 79-12	P

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**Abu Dhabi - Plot No. 13 Al Noud, Wadi Al Ain 1, 13 Warehouse No.7 - Al Noud Wadi Al Ain 1, Abu Dhabi,  
United Arab Emirates**

**Issue Date: 06/09/2024**

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**Issue No: 1**

Construction materials and building	Bitumen	Ductility	AASHTO T 51 -09 (2018 )	P
Construction materials and building	Bitumen	Solubility in trichloro ethylene	AASHTO T 44-23	P
Construction materials and building	Bitumen	Thin-Film oven test,3.2 mm,163°C,5 Hr ( Loss on heating )	AASHTO T 179 -05 (2018 ) ASTM D 95-23	P
Construction materials and building	Bitumen	Water Content	AASHTO T 55 -02c	P
Construction materials and building	Bitumen	Kinematic Viscosity @135°C	ASTM D2170/D2170M-22	P
Construction materials and building	Bitumen	Mixing & Compaction Temperature	ASTM D 2493/D2493M-16	P
Construction materials and building	Bitumen	Test for Emulsified Asphalts	AASHTO T 59-22	P
Construction materials and building	Bitumen	Saybolt Furol Viscosity @ 50°C	AASHTO T 72-10 AASHTO T 59-22	P
Construction materials and building	Bitumen	Distillation	AASHTO T 78-15	P
<b>END</b>				

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