



Accreditation Scope

RAK LAB LLC, NAL 030 Testing Laboratory, (ISO/IEC 17025:2017)

Ras Al Khaimah, United Arab Emirates

Issue Date: 08-04-2022

Expiry Date: 07-04-2025

Issue No: 09

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	Aggregates	Crushing Value	BS 812-110:1990	P
		Impact Value	BS 812-112:1990 Amd 8772:1995	
		Elongation Index	BS 812-105.2:1990	
		Flakiness Index	BS 812-105.1:1989	
		Particle Size Distribution (Wet & Dry Sieving)	BS 812-103.1:1985 Amd 6003:1989, Clause 7.2&7.3	
		Ten Percent Fine Value (Dry & Soaked)	BS 812-111:1990, Clause 7.1 & 7.2	
		Resistance to Degradation by Abrasion and Impact in the Los Angeles Machine	ASTM C131/C131M-20	
		Sieve Analysis	ASTM C136/C13M-19	
		Resistance to Degradation by Abrasion and impact in the Los Angeles machine	ASTM C535-16	



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Construction Materials	Aggregates	Soundness by the Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88-18	P
		Density, Relative Density (Specific Gravity) and Absorption	ASTM C128-15	
		Density, Relative Density (Specific Gravity) and Absorption	ASTM C127-15	
		Particle Size Distribution	BS EN 933-1:2012	
		Clay Lumps and Friable Particles	ASTM C142/C142M-17	
		Shell Content	BS 812-106:1985	
		Material Finer Than 75 Microns by Washing	ASTM C117-17	
		Particle Density and Water Absorption	BS EN 1097-6:2013, Clause 7, 8, 9	
		Shell Content	BS EN 933-7:1998	
		Flakiness Index	BS EN 933-3:2012	
		Shape Index	BS EN 933-4:2008	



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Construction Materials	Aggregates	Resistance to Fragmentation by the Los Angeles Method	BS EN 1097-2:2020 Clause 5	P
		Drying Shrinkage	BS EN 1367-4:2008	
		Particle Densities and Water Absorption	BS 812-2:1995, Clause 5.3, 5.4 & 5.5	
		Flat Particles, Elongated Particles or Flat and Elongated Particles	ASTM D4791-19 Method B	
		Crushed and Broken Surfaces	BS EN 933-5:1998	
		Resistance to Wear (Micro-Deval)	BS EN 1097-1:2011	
	Aggregates and Rocks	Heavy Grading	CIRIA C683, 2 nd Edition 2007 / BS EN 13383-2:2019 Clause 6	
		Light Grading	CIRIA C683, 2 nd Edition 2007 / BS EN 13383-2:2019 Clause 6	
		Particle Density and Water Absorption	CIRIA C683, 2 nd edition-2007 / BS EN 13383-2:2019 Clause 6	
		Block Integrity (Drop Test) for Heavy and Light Grading	CIRIA C683, 2 nd Edition 2007 / BS EN 13383-1:2002 Annex B.2: Tests	



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Construction Materials	Aggregates and Rocks	Percentage of Pieces of Armour Stone with Length to Thickness Ratio Greater than 3	CIRIA C683, 2 nd Edition 2007 / BS EN 13383-2:2019 Clause 7	P
		Uniaxial Compressive Strength	BS EN 1926:2006	
		Test for Thermal and Weathering Properties (Magnesium Sulfate Soundness Test)	BS EN 1367-2:2009	
		Point Load Strength Index	ISRM 1985	
	Aggregate and Cement	Potential Alkali Reactivity of Cement-Aggregate Combination (Mortar-Bar Method)	ASTM C227-10	



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Construction Material	Soils	California Bearing Ratio (CBR)	BS 1377-4:1990 Amd 8259:1995 & 13925:2002, Clause 7.2.3.2	P
		Moisture Content	BS 1377-2:1990, Clause 3.2	
		Water Content	BS EN ISO 17892-1:2014	
		Dry Density-Moisture Content Relationship using 4.5 kg Rammer for Coarse and Medium Gravel Size Particles	BS 1377-4:1990 Amd 8259:1995 & 13925:2002, Clause 3.5 & 3.6	
		Determination of Particle Size Distribution	BS EN ISO 17892-4:2016, Clause 5.2	
		Determination of Sand Equivalent Value	ASTM D2419-14	
		Determination of Liquid Limit (by Fall Cone Method)	BS EN ISO 17892-12:2018, Clause 5.3	
		Determination Plastic Limit and Plasticity Index	BS EN ISO 17892-12:2018, Clause 5.5 & 6.5	
		In-Situ Density by Sand Replacement (Large Pouring Cylinder)	BS 1377-9:1990 Amd 8264:1995, Clause 2.2	



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Construction Materials	Hardened Concrete	Compressive Strength of Concrete Cubes	BS 1881-116:1983 Amd 6097:1989 & 6720:1991 (superseded, withdrawn)	P
		Compressive Strength of Concrete Cubes	BS EN 12390-3:2019	
		Shape, Dimensions and other Requirements for Specimens	BS EN 12390-1:2021	
		Density	BS EN 12390-7:2019	
		Making and Curing	BS EN 12390-2:2019	
		Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration	ASTM C1202-19	
		Depth of Penetration of Water Under Pressure	BS EN 12390-8:2019	
		Water Permeability	DIN 1048-5:1991	
		Determination of Water Absorption on Hardened Concrete	BS 1881-122:2011+A1:2020	
		Initial Surface Absorption of Concrete	BS 1881-208:1996	



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Construction Material	Pre-Cast Concrete Masonry Units	Measurement of Dimensions	BS 6073-1:1981 Amd 3944:1982, 4462:1984, 14523:2003, Appendix A	P
		Compressive Strength	BS 6073-2:1981 Amd 4508:1984, Appendix B	
	Pre-Cast Concrete Paving Blocks	Dimensions	BS 6717-1:1993 Annex A	
		Compressive Strength	BS 6717-1:1993 Annex B	
	Cement	Compressive Strength	BS EN 196-1:2016	
		Setting Time (Initial and Final)	BS EN 196-3:2016 ASTM C191-21	
		Fineness of Cement	BS EN 196-6:2018 ASTM C204-18	
		Le Chatelier Soundness	BS EN 196-3:2016	
		Flexural Strength	BS EN 196-1:2016	
		Consistency	BS EN 196-3:2016 ASTM C187-16	
		Compressive Strength	ASTM C109/C109M-21	



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Construction Materials	Cement	Air Content	ASTM C185-20	P
		Softness (Specific Surface Area) by Air Permeability	GSO 1915:2009, Clause 2.1	
		Standard Texture (Consistency)	GSO 1915:2009, Clause 2.2	
		Initial and Final Setting Time	GSO 1915:2009, Clause 2.3	
		Pressure Resistance (Compressive Strength)	GSO 1915:2009, Clause 2.4	
	Steel	Tensile Properties (Yield Strength, Tensile Strength, Elongation after Fracture, Elongation at Maximum Force)	BS EN ISO 15630-1:2019 BS EN ISO 6892-1:2019 BS 4449:2005+A3:2016	
		Re-Bend	BS 4449:2005+A3:2016	
	Multi-Wire Steel Prestressing Strand	Mechanical Properties	ASTM A1061/A1061M-20 ^{e1} ASTM A416/A416M-18	



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Chemical	Water / Wastewater	Determination of Sulphate (SO ₄) / >5mg/L	APHA 4500-SO ₄ ²⁻ -C, 23 rd Edition 2017	P
		Determination of Chloride	APHA 4500-Cl-B, 23 rd Edition 2017	
		Determination of Calcium	APHA 3500-Ca-B, 23 rd Edition 2017	
		Determination of Magnesium	APHA 3500-Mg-B, 23 rd Edition 2017	
		Determination of Total Hardness	APHA 2340-C, 23 rd Edition 2017	
		Total Hardness (as CaCO ₃) (By Calculation)	APHA 2340-B, 23 rd Edition 2017	
		Determination of Alkalinity	APHA 2320-B, 23 rd Edition 2017	
		pH @ 25 °C / 0 – 14 PH units	APHA 4500-H ⁺ -B, 23 rd Edition 2017	
		Total Suspended Solids at 103 °C to 105 °C	APHA 2540-D, 23 rd Edition 2017	
		Total Dissolved Solids at 180 °C	APHA 2540-C, 23 rd Edition 2017	
		Oil & Grease / >5 mg/L	APHA 5520-B, 23 rd Edition 2017	



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Chemical	Water / Wastewater	Chemical Oxygen Demand (COD) / >5 mg/L	APHA 5220-B, 23 rd Edition 2017	P
		Biochemical Oxygen Demand (BOD) 5 days at 20 °C	APHA 5210-B, 23 rd Edition 2017	
		Copper (Cu) / 0.004-50 mg/L, Manganese (Mn) / 0.001- 50mg/L, Lead (Pb) / 0.008-100 mg/L, Nickel (Ni) / 0.002-50 mg/L, Iron (Fe) / 0.01-100 mg/L, Zinc (Zn) / 0.002-100 mg/L, Silver (Ag) / 0.002-50 mg/L, Chromium (Cr) / 0.001-50 mg/L, Cobalt (Co) / 0.002-50 mg/L Cadmium (Cd) / 0.002-50 mg/L, Sodium (Na) / 0.69-100 mg/L, Potassium (K) / 0.007-100 mg/L,	APHA 3030-F, APHA 3120-B, 23 rd Edition 2017	



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Chemical	Water / Wastewater	Calcium (Ca) / 0.02-100 mg/L, Magnesium (Mg) / 0.002- 100 mg/L Conductivity at 25 °C / 1 – 12990 µS/cm	APHA 5220-B, 23 rd Edition 2017	P
	Used Lubricating Oil	Aluminum (Al) / 0.02-40 mg/kg, Calcium (Ca) / 0.08-9000 mg/kg, Chromium (Cr) / 0.01-40 mg/kg, Copper (Cu) / 0.01-160 mg/kg, Iron (Fe) / 0.02-140 mg/kg, Lead (Pb) / 0.07-160 mg/kg, Manganese (Mn) / 0.01- 700 mg/kg, Sodium (Na) / 0.02-70 mg/kg, Silicon (Si) / 0.1-40 mg/kg, Tin (Sn) / 0.03-40 mg/kg	ASTM D5185-18	



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Chemical	Used Lubricating Oil	Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration / 0.0-300 mg / KOH	ASTM D2896-21 (Procedure B)	P	
	Petroleum Products	Determination of Total Sulfur in Light Hydrocarbon, Spark Ignition Engines, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence / 0-8000 ppm	ASTM D5453-19a		
	Soils	Acid Soluble Chloride			BS 1377-3:2018+A1:2021 Clause 9.3
		Acid Soluble Sulphate			BS 1377-3:2018+A1:2021 Clause 7.9/7.6
		pH / 0-14 ph units			BS 1377-3:2018+A1:2021 Clause 12
	Ground Water	pH / 0-14 pH units			BS 1377-3:2018+A1:2021 Clause12
		Sulphate Content			BS 1377-3:2018+A1:2021 Clause 7.8/7.6
	Hardened Concrete	Chloride Content			BS 1881-124:2015+A1:2021 Clause 12.1
		Sulphate Content			BS 1881-124:2015+A1:2021 Clause 12.2



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Chemical	Cement	Loss on Ignition	BS EN 196-2:2013 Clause 4.4.1	P
		Sulfate	BS EN 196-2:2013 Clause 4.4.2	
		Insoluble Residue (HCl / Na ₂ CO ₃)	BS EN 196-2:2013 Clause 4.4.3.1	
		Silica	BS EN 196-2:2013 Clause 4.5.2 – 4.5.9	
		Iron Oxide	BS EN 196-2:2013 Clause 4.5.10	
		Aluminum Oxide	BS EN 196-2:2013 Clause 4.5.11	
		Determination of Calcium Oxide	BS EN 196-2:2013 Clause 4.5.14/4.5.12	
		Magnesium Oxide	BS EN 196-2:2013 Clause 4.5.13/4.5.15	
		Chloride	BS EN 196-2:2013 Clause 4.5.16	
		Alkali (Na ₂ O, K ₂ O)	In-House Technical Procedure 126; Rev.0 dated 1.12.2017	



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Chemical	Aggregates	Light Weight Particles	ASTM C123/C123M-14	P
		Acid Soluble Chloride and Sulphate Content	BS 812-117:1988 Appendix C BS 812-118:1988 CI 6.4	
		Assessment of Fines- Methylene Blue Test	BS EN 933-9:2009+A1:2013	
		Chloride Content (Acid- Soluble)	BS EN 1744-5:2006	
		Sulphate Content (Acid- Soluble)	BS EN 1744-1:2009 +A1:2012 Clause 12	
		Potential Alkali-Silica Reactivity	ASTM C289-07 [Withdrawn]	
		Determination of Organic Components Affecting the Setting and the Hardening of Cement	BS EN 1744-1:2009 +A1:2012 Clause 15.1	
		Determination of Light Weight Contaminators	BS EN 1744-1:2009 +A1:2012, Clause 14.2	
		Organic Impurities in Fine Aggregates For Concrete	ASTM C40/C40M-20	



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Environmental	Indoor Air Quality	Total Suspended Particulate Matter (TSPM)	BS EN 481:1993 BS 6069-3.5:1993	S
		Respirable Suspended Particulate Matter PM 10, 2.5 & 1 (RSPM) / 0-10 $\mu\text{g}/\text{m}^3$	BS EN 12341:1999 BS EN 481:1993 BS EN 6069-3.5:1993	
		Nitrogen Dioxide (NO ₂) / 0-100 ppm	BS EN 45544-1:2015 BS EN 50271:2018 BS EN 60079-29-2:2015	
		Sulphur Dioxide (SO ₂) / 0-20 ppm		
		Volatile Organic Compound (VOC) / 0-100 ppm		
		Methane (CH ₄) / 0-100 %	BS EN 45544-1:2015 BS EN 50271:2018 BS EN 60079-29-2:2015	
		Ammonia (NH ₃) / 0-50 ppm		
		Carbon monoxide (CO) / 0-50 ppm		
		Carbon Dioxide (CO ₂) / 0- 5000 ppm		
		Hydrogen Sulphide (H ₂ S) / 0-50 ppm		



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Environmental	Indoor Air Quality	Oxygen (O ₂) / 0-25 %	BS EN 45544-1:2015 BS EN 50271:2018 BS EN 60079-29-2:2015	S
		Ozone(O ₃) / 0-100 ppm		
		Temperature/ -40 to 85°C		
		Relative Humidity / 0-100 %	BS EN 45544-1:2015 BS EN 50271:2018	
		Formaldehyde (HCHO) / 0- 10 ppm	BS EN 60079-29-2:2015	
	Outdoor Air Quality	Total Suspended Particulate Matter (TSPM)	USEPA-e CFR: Title 40:Part 50:Sep 2012	
		Respirable Suspended Particulate Matter (RSPM -PM 10) / 0 - 10µg/m ³		



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Environmental	Outdoor Air Quality	Sulphur Dioxide (SO ₂) / 0- 20 ppm	BS EN 45544-1:2015 BS EN 50271:2018 BS EN 60079-29-2:2015	S
		Nitrogen Dioxide (NO ₂) / 0-100 ppm		
		Volatile Organic Compound (VOC) / 0-100 ppm		
		Ozone (O ₃) / 0-100 ppm		
		Ammonia (NH ₃) / 0-50 ppm	BS EN 45544-1:2015 BS EN 50271:2018 BS EN 60079-29-2:2015	
		Carbon monoxide (CO) / 0-50 ppm		
		Hydrogen Sulphide (H ₂ S) / 0-50 ppm		
		Carbon Dioxide (CO ₂) / 0- 5000 ppm		
		Methane (CH ₄) / 0-100 %		



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Environmental	Outdoor Air Quality	Oxygen(O ₂) / 0-25 %	BS EN 45544-1:2015	S
		Formaldehyde (HCHO) / 0-10 ppm	BS EN 50271:2018 BS EN 60079-29-2:2015	
	Noise	Occupational Noise levels / 0 - 140 dBA	ISO 1996-2:2017	
		Personal Noise exposure / 0 - 140 dBA	ISO 9612:2009	
	Personal Dust Monitoring/ Exposure	Personal dust exposure - Respirable Suspended Particulate Matter (RSPM) / 0 - 10µg/m ³	MDHS 14/3:2000	
	Flue Gas	Carbon Monoxide (CO) / 0-3000 ppm	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999	
		Oxides of Nitrogen (NO _x) / 0-1000 ppm		
		Oxygen (O ₂) / 0-21 %		
		Carbon Dioxide (CO ₂) / 0- 30 %		



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Environmental	Flue Gas	Temperature / 0 – 1000 °C	USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017	S
		Hydrogen Sulphide (H ₂ S) / 0-500 ppm		
		Hydro carbons (C _x H _y) / 0-5000 ppm		
		Sulphur Dioxide (SO ₂) / 0-1000 ppm		
	Illuminance	Illuminance- Lux / 0 - 200000 Lux	BS EN 12464-1:2011	
	Stack Emissions	Total Suspended Particles (TSP)	USEPA EMC Method 17: Sep 2017	
		Moisture	US EPA EMC Method 4: Aug 2017	
		Carbon Dioxide (CO ₂) / 0- 30 %	USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep 1999	
		Carbon Monoxide (CO) / 0-3000 ppm		
		Oxides of Nitrogen (NO _x) / 0-1000 ppm		
Oxygen (O ₂) / 0-21 %				



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Environmental	Stack Emissions	Temperature / 1000 °C	USEPA CTM 30: Oct 1997, USEPA CTM 34: Sep 1999, In-house procedure ESOP- 009 Rev0 dated 1.12.2017	S
		Sulphur Dioxide (SO ₂) / 0-1000 ppm		
		Hydrogen Sulphide (H ₂ S) / 0-500 ppm		
		Hydro carbons (C _x H _y) / 0-5000 ppm		
Performance of Building Blocks using SRI	Building Blocks	Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer	ASTM C1549-16	P
		Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers	ASTM C1371-15	
		Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low- Sloped Opaque Surfaces	ASTM E1980-11(2019)	
END				