



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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)
Sampling	Water	Sampling for water	APHA 9060A 23rd edition. 2017	S
		Sampling for legionella	BS 7592:2022	
	Food	Sampling for Food	Compendium of methods for the microbiological examination of foods 4th Edition. Chapter 2 AISL/MB/SOP-19 Issue 01 / 26.03.2019; Rev: 02 /; Based on Compendium of methods for the examination of foods 4th Edition. Chapter 3	
	Swab	Sampling- Surface Swab and Hand Swab		
Microbiological	Water/ Waste water	Heterotrophic Plate Count	APHA 9215B, 23rd Ed. 2017	P
		Enumeration of Total Coliforms	APHA 9222B, 23rd Ed. 2017	
		Enumeration of Fecal coliforms	APHA 9222D, 23rd Ed. 2017	
		Enumeration of E. coli	APHA 9222B& H, 23rd Ed. 2017	
		Enumeration of Fecal Streptococci and Enterococci	APHA 9230C, 23rd Ed. 2017	
		Enumeration of Pseudomonas aeruginosa	APHA 9213E, 23rd Ed. 2017	
		Legionella	ISO 11731 – 2017	



Accreditation Scope

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(NAL 137)**

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Issue Date: 29-10-2022

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Issue No: 04

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Microbiological	Food	Aerobic Plate Count	USFDA BAM Chapter 3 2001 (conventional plate count method)	P
		Enumeration of Yeast and Mould	USFDA BAM Chapter 18 2001	
		Enumeration of Coliforms by Colony Count Method	USFDA BAM Chapter 4 2020	
		Enumeration of Escherichia coli by Colony Count Method	USFDA BAM Chapter 4 2020	
		Enumeration of Enterobacteriaceae by Colony Count Method	CCFRA 2.3.1:2007	
		Enumeration of Staphylococcus aureus colony count method	USFDA BAM Chapter 12 2016 (direct plate count method)	
		Enumeration of Bacillus cereus by Colony Count Method	USFDA BAM Chapter 14 2020	
		Enumeration of Clostridium perfringens by Colony Count Method	USFDA BAM Chapter 16 2017	
		Detection of Salmonella spp, Cultural Method	USFDA BAM Chapter 05 2022	
		Detection of E coli O157:H7	AISL/MB/SOP-22 Issue 01 / Rev: 02 (AOAC 2000.14: 2016 By Reveal Kit Method -Neogen)	
		Detection of Vibrio cholerae	CCFRA 3.8.1:2007	
		Detection of Vibrio parahaemolyticus	CCFRA 3.8.1:2007	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

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Microbiological	Food	Detection of Listeria Spp and Listeria monocytogens.	CCFRA 3.2.4 & 3.2.7: 2007	P
	Hand and Surface Swab	Aerobic Plate Count	AISL/MB/SOP-10 Issue 01 / 26.03.2019; Rev:02 Based on BAM Chapter 3	
		Enumeration of Coliforms by Colony Count method	AISL/MB/SOP-10 Issue 01 / 26.03.2019; Rev : 01 Based on BAM Chapter 4	
		Enumeration of Escherichia coli by Colony Count method		
		Enumeration of Enterobacteriaceae	CCFRA 2.3.1:2007	
		Enumeration of Staphylococcus aureus by Colony Count method	AISL/MB/SOP-10 Issue 01 / 26.03.2019; Rev : 01 Based on BAM Chapter 12	
Environmental Monitoring	Indoor Air-Sampling and Analysis	Total Bacterial Count (TBC) Yeast and Mould Count	AISL/MB/SOP-26 Issue 01 / 11.07.2019; Based on CCFRA Methods – CCFRA 1.1.1, CCFRA 2.1.1, CCFRA 2.2.1	S/P
	Indoor air	PM 0.5, PM1.0, PM2.5, PM 5.0, PM10, TPM	BS EN 481 – 1993 AISL/EV/SOP-01 Issue 01/05.05.2019 Rev:01/15-06-2020	S



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

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Environmental Monitoring	Indoor air	Temperature, Relative humidity, Ammonia, Carbon monoxide, Carbon dioxide, Nitric Oxide, Nitrogen dioxide, Oxygen, Ozone, Sulphur dioxide, Hydrogen sulphide, TVOC, Formaldehyde	BSEN-60079-29-2-2015 AISL/EV/SOP-07 Issue 01/27.04.2020 Rev:0 and AISL/EV/SOP-05 Issue 01/26.04.2020 Rev:0	P
	Noise	Ambient / Occupationnel Noise Monitoring	AISL/EV/SOP-03 Based on ISO 1996-2: 2017 & Casella Cel 24X Sound Level Meter AISL/EV/SOP-06 Based on ISO 1996-2: 2017 & Scarlet Tech ST 11D Sound Level Meter.	
	Stack Emissions/Flue Gas Monitoring	Oxygen (O2) Nitrogen Oxides (NOX) Carbon Monoxide (CO) Carbon Dioxide (CO2) Sulphur Dioxide (SO2) Hydrocarbons as (CH4) Ambient Temperature Gas Temperature	AISL/EV/SOP-08 Based on USEPA CTM 030: 1997 USEPA CTM 034: 1999 USEPA 6C: 2017 USEPA 10: 2017 USEPA 7E: 2020	
		Stack gas velocity Flow rate of stack gas Moisture Content Total Suspended Particles Dust Load	AISL/EV/SOP-09 Based on USEPA 2: 2017 USEPA 4: 2020 USEPA 17: 2017	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

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Environmental Monitoring	Ambient Air Quality Monitoring	Particulate Matters PM 10, PM 2.5, Total Suspended Particles (TSP)	AISL/EV/SOP-10 Based on BS EN 481-1993	
		Sulphur Dioxide (SO ₂) Nitrogen Dioxide (NO ₂) Ozone (O ₃) Ammonia (NH ₃) Hydrogen Sulphide (H ₂ S) Carbon Monoxide (CO) Temperature and Relative Humidity	AISL/EV/SOP-11 Based on BS EN 60079-29-2: 2015	
		TVOC	AISL/EV/SOP-12 Based on BS EN 60079-29-2: 2015	
	Light Intensity (LUX) Monitoring	Illuminance Monitoring Based on BS 667: 2005		
Chemical	Water / Waste Water	pH at 25 °C	APHA 4500 H+ B 23rd Edition. 2017	P
		Chlorine residual	APHA 4500 Cl G 23rd Edition. 2017	P
		Total Suspended Solid (TSS)	APHA 2540 D 23rd Edition. 2017	
		Total Dissolved Solids (TDS)	APHA 2540 C 23rd Edition. 2017	
		Chloride (Cl ⁻)	APHA 4500 Cl- B 23rd Edition. 2017	
		Sulphate (SO ₄)	APHA 4500 SO ₄ - C 23rd Edition. 2017	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

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Issue Date: 29-10-2022

Expiry Date: 28-10-2025

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Chemical	Water / Waste Water	Oil & Grease	APHA 5520 B 23rd Edition. 2017	P
		Mercury (Hg)	APHA 3112 B/ICP-OES 23rd Edition. 2017	
		Aluminum (Al), Antimony (Sb), Arsenic (As) Barium (Ba) Beryllium (Be) Boron (B) Cadmium (Cd) Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe), Lead (Pb) Manganese (Mn) Nickel (Ni) Selenium (Se) Silver (Ag), Zinc (Zn)	APHA 3120 B 23rd Edition. 2017	
Chemical	Water / Waste Water/ Ground water	Conductivity	APHA 2510 B 23rd Edition. 2017	P
		Turbidity	APHA 2130 B 23rd Edition. 2017	
		Total Alkalinity TO pH 4.4	APHA 2320 B 23rd Edition. 2017	
		Bicarbonate (HCO ₃)	APHA 2320 B; 23 rd Edition- 2017	
		Total Hardness as CaCO ₃	APHA 2340 C 23rd Edition. 2017	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

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Chemical	Water / Waste Water/ Ground water	Calcium Hardness	APHA 3500 Ca B 23rd Edition. 2017	P
		Magnesium (Mg)	APHA 3500 Mg B 23rd Edition. 2017	
		Biochemical Oxygen Demand	APHA 5210 B 23rd Edition. 2017	
		Chemical Oxygen Demand	APHA 5220 B 23rd Edition. 2017	
	Water	Calcium (Ca)	APHA 3500 Ca B 23rd Edition. 2017	
		Chlorate, Bromate, Bromide, Chlorite	APHA 4110 D 23rd Edition. 2017	
		Total Organic Carbon	APHA 5310 B 23rd Edition. 2017	
	Water/ Dialysis water	Sodium (Na)	APHA 3120 B 23rd Edition. 2017	
		Potassium (K)	APHA 3120 B 23rd Edition. 2017	
		Chloride, Sulphate, Nitrate, Nitrite, Fluoride, Phosphate	APHA 4110 B 23rd Edition. 2017	
	Ground water	pH at 25 °C	BS 1377 Part 3:2018+A1:2021 Clause 12	
		Chloride	BS 1377 Part 3:2018+A1:2021 Clause 9.2	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

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Chemical	Ground water	Sulphate	BS 1377 Part 3:2018+A1:2021 Clause 7.6,7.8	P
		Total Suspended Solid (TSS)	APHA 2540 D 23rd Edition. 2017	
		Total Dissolved Solids (TDS)	APHA 2540 C 23rd Edition. 2017	
		Oil & Grease	APHA 5520 B 23rd Edition 2017	
	Sea Water / Marine Water	pH	APHA 4500 H+B 23rd Edition 2017	
		Total Dissolved Solids	APHA 2540 C 23rd Edition 2017	
		Total Suspended Solids	APHA 2540 D 23rd Edition 2017	
	Sea Water / Marine Water	Chloride	APHA 4500 Cl B 23rd Edition 2017	
		Sulphate	APHA 4500 SO4 2-C 23rd Edition 2017	
		Copper (Cu) Iron (Fe) Zinc (Zn) Nickel (Ni)	APHA 3120 B 23rd Edition 2017	
Soil	pH value of soil	BS 1377- 3: 2018+A1:2021 Clause 12		
	Acid soluble sulphate content in soil	BS 1377- 3: 2018+A1:2021 Clause 7.9/7.6		



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

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Chemical	Soil	Water soluble sulphate content in soil	BS 1377- 3: 2018+A1:2021 Clause 7.3/7.6	P
		Acid soluble chloride content in soil	BS 1377- 3: 2018+A1:2021 Clause 9.3	
		Water soluble chloride content in soil	BS 1377- 3: 2018+A1:2021 Clause 9.2	
		Organic Matter	BS 1377 PART-3 Cl 8 :2018+A1:2021	
	Aggregate	Organic Impurity	ASTM C 40:20	
	Concrete Cube	Sulphate	BS 1881 PART 124 M 12.2:2015+A1:2021	
		Chloride	BS 1881 PART 124 M 12.1:2015+A1:2021	
	Sludge	Total Solids	APHA 2540 G 23rd edition. 2017	
		Volatile solids		
		Fixed solids		
Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Molybdenum, Selenium, Zinc		EPA 3050 B Revision 2, 1996		
Food	Moisture (Nut and Nut products)	AOAC 925.40 21 st Edition 2019		



Accreditation Scope

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Issue Date: 29-10-2022

Expiry Date: 28-10-2025

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Chemical	Food	Moisture (Dairy and Dairy products)	AOAC 927.05(Milk powder), AOAC 926.08(Cheese), AOAC 920.116(Butter) 21 st Edition 2019	P
		Moisture (Fishery and Poultry Products)	AOAC 950.46 21 st Edition 2019	
		Moisture (Fruits and Vegetables)	AOAC 984.25(Potatoes) , AOAC 934.06(Dried fruits) 21 st Edition 2019	
		Moisture (Bakery confectionary)	AOAC 925.49 21 st Edition 2019	
		Moisture (Cereal, millets, pulses and processed complementary foods)	AOAC 925.10 21 st Edition 2019	
		Ash (Nuts and Nut products)	AOAC 950.49 21 st Edition 2019	
		Ash (Bakery Confectionary)	AOAC 935.39 21 st Edition 2019	
		Fat (Nuts and Nut products)	AOAC 948.22 21 st Edition 2019	
		Fat (Dairy and Dairy Products)	AOAC 989.05 21 st Edition 2019	
		Fat (Fishery and Poultry Products)	AOAC 991.36 21 st Edition 2019	
		Fat (Bakery Confectionary)	AOAC 935.39 21 st Edition 2019	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

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Expiry Date: 28-10-2025

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Chemical	Food	Fat (Cereal, millets, pulses and processed complementary foods)	AOAC 920.85 21 st Edition 2019	P
		Protein (Nuts and Nut products)	AOAC 950.48 21 st Edition 2019	
		Protein (Dairy and Dairy Products)	AOAC 991.20 21 st Edition 2019	
		Protein (Fishery and Poultry Products)	AOAC 981.10 21 st Edition 2019	
		Protein (Fruits and Vegetables)	AOAC 920.152 21 st Edition 2019	
		Protein (Bakery Confectionary)	AOAC 935.39 21 st Edition 2019	
		Protein (Cereal, millets, pulses and processed complementary foods)	AOAC 920.87 21 st Edition 2019	
		Carbohydrates	AOAC (by calculation) 21 st Edition 2019	
		Energy	AOAC (by calculation) 21 st Edition 2019	
		Energy from fat	AOAC (by calculation) 21 st Edition 2019	
		Sodium & Potassium (Infant Formula)	AOAC 984.27 21 st Edition 2019	



Accreditation Scope

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(NAL 137)**

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Expiry Date: 28-10-2025

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	Food	Sodium & Potassium (Dairy and Dairy Products)	AOAC 990.23 21 st Edition 2019	P	
		Sodium & Potassium (Fishery and Poultry Products)	AOAC 2011.14 (ICP-OES Method) 21 st Edition 2019		
		pH(Acidified Food)	AOAC 981.12 21 st Edition 2019		
	Honey	Moisture	AOAC 969.38 21 st Edition 2019		
		Ash	AOAC 920.181 21 st Edition 2019		
		Lactone	AOAC 962.19 21 st Edition 2019		
		Free Acid	AOAC 962.19 21 st Edition 2019		
		Total Acid	AOAC 962.19 21 st Edition 2019		
	Chemical	Food - Animal Feed	Moisture		AOAC 930.15 21 st Edition 2019
			Ash		AOAC 942.05 21 st Edition 2019
Fat			AOAC 920.39 21 st Edition 2019		



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

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Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

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Chemical	Carbon & Low Alloy Steel	Carbon, Silicon Manganese, Phosphorous Sulphur, Nickel Chromium, Vanadium Molybdenum, Nitrogen Copper, Titanium	ASTM E 415 –2021	P	
	Stainless Steel	Carbon, Chromium Manganese, Molybdenum Nickel, Phosphorous Silicon, Sulfur	ASTM E 1086-14		
	Aggregates	Acid Soluble Sulphate			BS 812 – 118 : M 6 : 1998
		Acid Soluble Chloride			BS 812 – 117 APP.C : 1988
		Acid Soluble Sulphate			BS EN 1744-1: 2009+A1: 2012 Cls 12.4
		Acid Soluble Chloride			BS EN 1744-5:2006 Cls.9
	Polyethylene Compounds	Carbon Black			ASTM D 4218 - 20
Physical – Construction	Soil & Rock	Dry density-Moisture content relationship using 4.5 Kg Rammer for coarse and medium size particles	BS 1377 PART-4 :1990 AMD 13925:2002 CL 3.5 & 3.6		
			BS EN ISO 17892 Part 1:2014		
		Moisture Content of Soil	BS 1377-2: 2022		
		Particle Size distribution	BS EN ISO 17892 Part 4: 2016 BS 1377-2: 2022		



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

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Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

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Physical – Construction	Soil & Rock	In-Situ density by sand replacement method	BS 1377 PART-9:1990, AMD 8264:1995, CL 2.2	P
		California bearing Ratio (CBR) Mold BS	BS 1377 PART-4 :1990, AMD 13925-2002 CL 7	
		Liquid Limit, Plastic Limit and Plasticity Index of Soil	BS EN ISO 17892 Part 12: 2018	
	BS-1377:2022			
	Soil	Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer	ASTM D1557– (2021)	
			AASHTO T 180-2022	
		Liquid Limit of Soil	AASHTO T-89-2022	
Plastic Limit and Plasticity Index of Soil		AASHTO T-90-2022		
Physical – Construction	Soil	Liquid Limit, Plastic Limit, and Plasticity Index of Soils.	ASTM D4318:17e1	P
		Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216:19	
		Particle Size Distribution- Hydrometer Method	BS 1377-2:2022	
	Cement	Standard Consistency Setting time (initial & final)	BSEN-196-3:2016, CL 5 & CL 6	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

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Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Cement	Soundness	BS EN 196-3:2016	P	
		Flexural & Compressive Strength	BS EN 196-1:2016		
		Blain Air Permeability	BS EN 196-6:2018		
	Cement/Grout/Epoxy	Compressive Strength	ASTMC109/C109M:2021		
	Steel	Rebend Test			BS 4449:2005+A3:2016
					BSEN ISO-15630-1:2019
		Steel Tensile test	BS 4449:2005+A3:2016, BSEN ISO-15630-1:2019, BS EN ISO 6892-1: 2019		
	Steel	Steel bend Test	BS 4449:1988		
	Aggregate	Flakiness index			BS 812 PART-105.1:1989
					BS EN 933-3:2012
Elongation index		BS 812 PART-105.2:1990			



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

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Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Aggregate	Sieve analysis of fine and coarse aggregate	BS 812 PART-103:1985,	P
			BSEN 933-1:2012	
			ASTM C-136/C136M:2019	
		Particle density and absorption of coarse and fine aggregate	BS 812 PART-2:1995	
		Aggregate crushing value	BS 812 PART-110:1990	
		Moisture content	BS 812 PART-109:1990-clause 6	
			BS EN 1097-5:2008	
	Soundness of aggregates by use of sodium sulfate & magnesium sulfate	ASTM C88 / C88M : 18		
	Aggregate	Materials finer than 75 microns in mineral aggregates by washing	ASTM C-117:17	
		Specific gravity & water absorption of coarse aggregates	ASTM C 127: 2015	
		Specific gravity and water absorption of fine aggregates	ASTM C 128:2015	
		Clay lumps and friable particles	ASTM C142 / C142M : 17	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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 – Construction	Aggregate	Sand equivalent value	ASTM D 2419 :2014	P	
		Aggregates impact value	BS 812 PART 112:1990		
		Los Angeles Abrasion Small-Size Coarse Aggregate	ASTM C131 / C131M : 20		
		Los Angeles Abrasion Large-Size Coarse Aggregate	ASTM C 535:2016		
	Sampling			ASTM D75-2019	S/P
				AASHTO T-2:91(2015)	
		10% Fine Value		BS 812 -111:1990	P
	Aggregate	Shell Content		BS 812 -106:1985	P
				BSEN 933-7:1998	
	Concrete		Method of normal curing of test specimens (20°C method)	BS 1881 Part 111:1983 AMD. 9387:1997	P
			Methods for determination of density of hardened concrete	BS 1881 Part 114:1983 AMD. 6721:1989	
			Method for determination of compressive strength of concrete cubes	BS 1881 Part 116:1983 AMD. 6720: :1991	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Concrete	Shape, dimensions and other requirements for specimens & moulds	BS EN 12390 Part 1:2021	P
		Making & curing specimens for strength tests	BS EN 12390 - 2:2019	
		Compressive strength of test specimens	BS EN 12390-3:2019	
		Density of hardened concrete	BS EN 12390-7:2019	
		Depth of penetration of water under pressure in hardened concrete	BS EN 12390-8:2019	
	DIN-1048 Part 5:1991			
	Concrete	Water absorption of hardened concrete.	BS 1881 P 122:2011+A1:2020	P
		Initial surface water absorption of concrete	BS 1881 PART 208:1996	
		Water Absorption Test on Concrete Cores	BS 1881 P 122:2011+A1:2020	
		Rapid chloride permeability	ASTM C1202: 2022	
		Pull of test	BS 1881 –207:1992	S/P
Fresh Concrete	Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C1064 / C1064M:17		



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)
Testing Laboratory, (ISO/IEC 17025:2017)**

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Fresh Concrete	Slump	ASTM C143 / C143M :(2020)	P
			BS EN 12350-2 :(2019)	
		Sampling	BS EN 12350-1:2019	
			BS 1881 PART 101:1983 AMD 6728:1991	
			Method for making test cube	
	Bleeding of Concrete	ASTM C 232:2021		
	Fresh Concrete	Density	BS EN 12350-6:2019	S/P
		Air content pressure methods	BSEN 12350-7:2019	
	Water proofing membranes	Puncture Resistance	ASTM E154 / E154M - 08a(2019)e1, CL 10	P
		Tear Strength	ASTM D4073 / D4073M – 06 (2019)e1	
		Appearance and Dimensions	ASTM D5147 – 18, CL 11 ASTM D1204 –14 (2020)	
		Mass Per Unit Area	BS EN 1849-1:2000	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Water proofing membranes	Tensile Strength & Elongation	ASTM D5147 / D5147M:18, CL 7	P
	Geotextile	Tensile & Elongation (wide width strip method)	ASTM D4595:17	
		Static Puncture test	ASTM D6241:2022	
		Trapezoid Tearing Strength	ASTM D4533 / D4533M:15	
		Mass per unit area	ASTM D5261:10(2018)	
		GRP (Glass re enforcement pipe) & Plastics	Tensile strength	
	Stiffness test		ASTM D2412:2021	
	Flexure strength test		ASTM D 790:2017	
	Dimension		ASTM D3567:17 (2022)	
	Self-adhesive membrane	Tensile (Thin Plastics)	ASTM D 882 :2018	
		Elongation (Thin Plastics)	ASTM D 882 :2018	
		Puncture resistance	ASTM E154 / E154M - 08a (2019) e1, CL 10	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Self-adhesive membrane	Tear resistance	ASTM D 1004: 2021	P
		Water absorption	ASTM D5147 / D5147M – 18, CL 10	
	Plastics & Water Stopper	Tensile Properties	BS 2782-0:2011	
			ISO 527-2:2012	
		Tensile & Elongation	ASTM D638:2022	
	Water stopper	Shore A & D hardness	ASTM D2240:2021	
	Joint filler board	Compression recovery	ASTM D 545:19, CL 7.2	
		50% compression	ASTM D 545:19, CL 7.2	
		Extrusion	ASTM D 545:19, CL 7.3	
		Distortion	ASTM D994 / D994M:2022	
		Expansion in Boiling Water	ASTM D 545 :19, CL 7.1	
		Brittleness	ASTM D 994:2022	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Joint filler board	Water absorption	ASTM D 545 :19, CL 7.6	P
		Density	ASTM D 545 :19, CL 7.7	
	HDPE Liner (High density polyethylene) & Plastics	Tensile Strength	ASTM D 638:2022	
		Tear Strength	ASTM D 1004:2021	
		Density	ASTM D 792:2020	
	Masonry Block	Dimension	BS 6073-1 :1981 Appendix A: AMD 4462-84	
			BS EN 772-16:2011	
		Compressive Strength	BS 6073-2 :1981 Appendix B: AMD 4508-84	
			*BSEN 772-1:2011 + A1:2015	
	Water Absorption	ASTM C140/C140M:2022		
	Paving Block	Dimension	BS 6717-1:1993	
		Compressive strength	BS 6717-1:1993	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Paving Block	Water Absorption	BSEN-1338:2003	P
	Paving Block/ Interlocking /Concrete Tiles	Flexural Strength	ASTM C 293/M293:16	
	Kerb Stone	Dimension	BS 7263-1:2001;	
			BS EN 1339:2003	
		Water Absorption	BS 7263 – 1:1994	
	Kerb Stone	Water Absorption	BS EN 1339: 2003	
		Compressive strength	BS EN 12504-1:2019	
			BS EN 12390-3:2019	
		Flexure strength test	BS 7263 – 1:1994	
	BS EN 1339:2003			
Physical Construction Materials	Thermoplastic Pipes	Tensile properties	ISO 6259-2:2020	
		Heat Reversion	ISO 2505:2005	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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 Construction Materials	Polyolefin pipes	Tensile & Elongation	ISO 6259-1:2015 & ISO 6259 3:2015	P
	GRC (Glass Reinforced Concrete)	Water Absorption	ASTM C948 – 81(2016)	
		Flexural Strength	ASTM C947-03(2016)	
		Compressive Strength	BS EN 12390-3:2019	
	Multi Wire Prestressing Strand	Tensile & Elongation	ASTM A1061 / A1061M - 20ae1	
	Peel or stripping Strength of adhesive bonds	Peel Strength	ASTM D 903-98 (2017)	
	Non-Reinforced Geo Membranes	Shear & Peel strength	ASTM D 6392:12(2018)	
	Steel Products	Tensile test	ASTM A370:2021	
	Metallic Materials	Tensile testing	BS EN ISO6892-1:2019	
	Plastics	Tensile Testing	ASTM D638:2022	
		Water absorption	ASTM D570:98(2018)	
	Plastic film and Sheeting	Tear Strength	ASTM D1004:2021	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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 Construction Materials	Rigid Plastics	Barcol Hardness	ASTM D 2583:13a	P
	Geosynthetics	Tensile Strength	EN ISO 10319:2015	
	Geosynthetic Clay Liner	Tensile Strength	ASTM D 6768:2020	
	Geosynthetic Clay liner	Peel Strength	ASTM D6496:2020	
	Geosynthetics	Thickness	ASTM D5199:12(2019)	
	Geosynthetics	Thickness	ISO 9863-1: 2016 + A1:2019	
	Geosynthetic Clay Liner	Mass per unit Area	ASTM D5993:18	
	Geosynthetics	CBR puncture	EN ISO 12236:2006	
	Butt fused Joint Polyethylene pipes	Tensile Strength	ISO 13953:2001/AMD.1:2020(E)	
Physical – Construction	Steel	Geometry	BS 4449: 2005 + A3: 2016, BS EN ISO 15630-1:2019	S/P
	Epoxy Coated Steel	Coating Continuity(Holiday test)	ASTM A 775: 2019	
	Metallic Materials	Tensile Properties	BSEN 10002-1(Withdrawn) BS EN ISO 6892-1:2016	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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 – Construction	Metallic Materials	Tensile Properties	ASTM E 8: 2022	P
	Aluminum & Magnesium Alloy Products	Tensile Properties	ASTM B 557: 2015	
	Reinforced steel and other embedded Inserts	Pull Out Test	BS 1881-207 CLS 7: 1992	S/P
	Thermoplastic welded joints	Bend Test	BSEN 1881-207 CLS 7: 2000	
	Bitumen Sheets	Tensile Properties	BSEN 12311-1: 2000	P
	Bitumen Sheets	Resistance to Tearing(Nail Shank)	BSEN 12310-1: 2000	P
		Thickness	BSEN 1849-1: 2000	
	Geomembranes and Related Products	Index Puncture resistance	ASTM D 4833: 2020	P
	Rubber & Thermoplastic Elastomers	Tensile Properties	ASTM D 412: 2021	
		Tear Strength	ASTM D 624: 2020	
	Films and Sheets	Tensile Properties	BSEN ISO 527-3:2018	S/P
	Organic Coatings	Dry film thickness	ASTM D 6132:2022	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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 – Construction	Coating on metal substrates	Pull off strength	ASTM D 4541:2022	S/P
	Coating on concrete		ASTM D 7234:2021	
	Geo grid	Tensile Properties	ASTM D 6637:2015	P
	Chemical resistant mortars, Grouts, Monolithic surfacing and polymer concrete, Epoxy paints	Compressive Strength	ASTM C 579:2018	
		Flexural strength and modulus of elasticity	ASTM C 580:2018	
	Chemical resistant mortars, Grouts, Monolithic surfacing, Epoxy paints	Tensile Properties	ASTM C 307:2018	P
	Cement	Consistency	ASTM C 187:2016	
		Setting Time	ASTM C 191:2021	
		Autoclave Expansion	ASTM C 151:2018	
	Concrete	Flexural	BSEN 12390-5:2019	
Rebound Hammer		BSEN 12504-2:2021		



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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 – Construction	Concrete	Ultrasonic pulse velocity	BSEN 12504-4:2021	P
			BS 1881-203:1986	
	Concrete/aggregate	Drying Shrinkage	BS EN 1367-4:2018	
	Aggregate/Soil	Standard Method of Test For Plastic Fines In Graded Aggregates And Soils By Use Of The Sand Equivalent Test	AASHTO T 176 :2022	
			BS EN 933-8:2012	
	Aggregate/Soil	Standard Method Of Test For Soundness Of Aggregate By Use Of Sodium Sulfate Or Magnesium Sulfate	AASHTO T104:2022	
			AASHTO T96-2:2019	
			BS EN 1097-6:2022	
			AASHTO T85:2022	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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 – Construction	Aggregate/Soil	Standard Method of Test for Specific Gravity and Absorption of Fine Aggregate (ASTM Designation: C 127-12)	AASHTO T84-2022	P
		Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates (ASTM Designation C 136-06)	AASHTO T27:2022	
		Standard Method of Test for Materials Finer Than 75-micrometers (ASTM C 117-13)	AASHTO T11:2022	
	Soil	Plate Load Test	BS 1377-9 Cls 4.1:1990	S
		In-situ California Bearing Ratio	BS 1377-9 Cls 4.3:1990	
		In-situ Filed Density Test	ASTM D1556/D1556M-15e1:2016	
		In-situ Filed Density Test	AASHTO T191:2022	
		Linear Shrinkage	BS 1377-2:1990 CI 6.5:2022	P
		Determination of liquid limit by Cone penetrometer method	BS 1377-2:1990 CI 4.3 & 4.4:2022	



Accreditation Scope

**AMAN INTEGRATED SOLUTIONS –SOLE PROPRIETORSHIP L.L.C
(NAL 137)**

Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial Zone, Abu Dhabi, UAE

Issue Date: 29-10-2022

Expiry Date: 28-10-2025

Issue No: 04

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Physical – Construction	Soil	California Bearing Ratio of laboratory Compacted soils	ASTM D1883:2021	P
			AASHTO T193:2021	
	Kerb Stone	Bending Strength	BS EN 1340:2003	
		Water Absorption	BS EN 1340:2003	
		Dimension	BS EN 1340:2003	
END				