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Aman Integrated Solutions – Sole Proprietorship L.L.C., NAL 137 Testing Laboratory, (ISO/IEC 17025:2017)

Khalifa Industrial city – Abu Dhabi , UAE

Issue Date: 16-12-2021

Expiry Date: 28-10-2022

Issue No: 03

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 7592:2008	
	Food	Sampling for Food	Compendium of methods for the microbiological examination of foods 4th Edition. Chapter 2	
	Swab	Sampling- Surface Swab and Hand Swab	AISL/MB/SOP-19 Issue 01/ 26.03.2019; Rev:01; Based on Compendium of methods for the microbiological examination of foods 4th Edition. Chapter 3	
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	



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Microbiological	Waste water	Detection of Sulfate reducing bacteria	AISL/MB/SOP-25 Issue 01 / 10.07.2019; Rev: 01/21.08.2019	P
	Food	Aerobic Plate Count	USFDA BAM Chapter 3 2001 (conventional plate count method)	
		Enumeration of Yeast and Mould	USFDA BAM Chapter 18 2001	
		Enumeration of Coliforms by Colony Count Method	USFDA BAM Chapter 4 2017	
		Enumeration of Escherichia coli by Colony Count Method	USFDA BAM Chapter 4 2017	
		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 2012	
		Enumeration of Clostridium perfringens by Colony Count Method	USFDA BAM Chapter 16 2017	
		Detection of Salmonella spp, Cultural Method	USFDA BAM Chapter 05 2018	



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Microbiological	Food	Detection of E coli O157:H7	AISL/MB/SOP-22 Issue 01 / Rev: 02 (AOAC 2000.14: 2016 By Reveal Kit Method - Neogen)	P
		Detection of Vibrio cholerae	CCFRA 3.8.1:2007	
		Detection of Vibrio parahaemolyticus	CCFRA 3.8.1:2007	
		Detection of Listeria Spp and Listeria monocytogens.	CCFRA 3.2.4 & 3.2.7: 2007	
		Detection of Campylobacter Spp	AISL/MB/SOP-23 Issue 01 / 10.07.2019; Rev : 0	
	Hand and Surface Swab	Aerobic Plate Count	AISL/MB/SOP-10 Issue 01 / 26.03.2019; Rev : 01 Based on BAM Chapter 3	P
		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		



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Molecular Biology	Food	Meat Adulteration- Pork Gelatin detection	Real Time PCR AISL/MB/SOP-29 Issue 01 / 14.07.2019; Rev: 0	P
		Genetically modified organism (GMO) - 35s, Nos, FMV	Real Time PCR AISL/MB/SOP-28 Issue 01 / 14.07.2019; Rev: 01/15-06-2020	
	Food and cosmetics	Meat Adulteration- (Pork species)	Real Time PCR AISL/MB/SOP-27 Issue 01 / 14.07.2019; Rev: 01/01.09.2019	
	Cosmetics	Porcine Species Detection	Real Time PCR AISL/MB/SOP-30 Issue 01 / 14.07.2019; Rev: 0	
Pork Gelatin Detection		Real Time PCR AISL/MB/SOP-31 Issue 01 / 14.07.2019; Rev: 01/01.09.2019		
Environmental Monitoring	Indoor Air- Sampling and Analysis	Total Bacterial Count Yeast and Mould Count	AISL/MB/SOP-26 Issue 01 / 11.07.2019; Based on CCFRA Methods	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



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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	S
	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	P
	Stack Emissions/Flue Gas Monitoring	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	



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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	P
		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	P
		TVOC	AISL/EV/SOP-12 Based on BS EN 60079-29-2: 2015	P
	Light Intensity (LUX) Monitoring	Illuminance Monitoring	AISL-EV-SOP-04 Based on BS 667: 2005	P
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	
		Total Suspended Solid (TSS)	APHA 2540 D 23rd edition. 2017	
		Total Dissolved Solids (TDS)	APHA 2540 C 23rd edition. 2017	
Chemical	Water / Waste Water	Chloride (Cl ⁻)	APHA 4500 Cl- B 23rd edition. 2017	P
		Sulphate (SO ₄)	APHA 4500 SO ₄ - C 23rd edition. 2017	



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Chemical	Water / Waste Water	Oil & Grease	APHA 5520 B 23rd edition. 2017	
		Mercury (Hg)	APHA 3112 B/ICP-OES 23rd edition. 2017	
Chemical	Water / Waste Water	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; 23rd edition- 2017	
		Total Hardness as CaCO ₃	APHA 2340 C 23rd edition. 2017	



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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	P
		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	P
		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 Clause 12	P
		Chloride	BS 1377 part 3:2018 Clause 9.2	
Sulphate		BS 1377 part 3:2018 Clause 7.6, 7.8		



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Chemical	Ground water	Total Suspended Solid (TSS)	APHA 2540 D 23 rd edition. 2017	P
		Total Dissolved Solids (TDS)	APHA 2540 C 23 rd edition. 2017	
		Oil & Grease	APHA 5520 B 23 rd Edition 2017	
	Sea Water / Marine Water	pH	APHA 4500 H+B	P
		Total Dissolved Solids	APHA 2540 C	
		Total Suspended Solids	APHA 2540 D	
		Chloride	APHA 4500 Cl B	
		Sulphate	APHA 4500 SO4 2-C	
		Copper	APHA 3120 B	
		Iron	APHA 3120 B	
		Zinc	APHA 3120 B	
	Nickel	APHA 3120 B		
	Soil	pH value of soil	BS 1377- 3: 2018 Clause 12	P
		Acid soluble sulphate content in soil	BS 1377- 3: 2018 Clause 7.9/7.6	
		Water soluble sulphate content in soil	BS 1377- 3: 2018 Clause 7.3/7.6	
Acid soluble chloride content in soil		BS 1377- 3: 2018 Clause 9.3		
Water soluble chloride content in soil		BS 1377- 3: 2018 Clause 9.2		



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Chemical	Soil	Organic Matter	BS 1377 PART-3 Cl 8 :2018	P
	Aggregate	Organic Impurity	ASTM C 40:20	P
	Concrete Cube	Sulphate	BS 1881 PART 124 M 12.2:2015	P
		Chloride	BS 1881 PART 124 M 12.1:2015	
	Sludge	Total Solids	APHA 2540 G 23 rd edition. 2017	P
		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	P
		Moisture (Dairy and Dairy products)	AOAC 927.05(Milk powder), AOAC 926.08(Cheese), AOAC 920.116(Butter) 21 st Edition 2019	
		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	



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Chemical	Food	Moisture (Cereal, millets, pulses and processed complementary foods)	AOAC 925.10 21 st Edition 2019	P
		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	
		Fat (Cereal, millets, pulses and processed complementary foods)	AOAC 920.85 21 st Edition 2019	
		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	



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Chemical	Food	Protein (Bakery Confectionary)	AOAC 935.39 21 st Edition 2019	P
		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	
		Sodium & Potassium (Dairy and Dairy Products)	AOAC 990.23 21 st Edition 2019	
		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	
	Saccharin, Acesulfame-K Aspartame	BSEN 12856:1999		
Food-Caffeine in Cocoa Products	Caffeine	AOAC 980.14 21 st Edition 2019	P	



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Chemical	Honey	Moisture	AOAC 969.38	P
		Ash	AOAC 920.181	
		Lactone	AOAC 962.19	
		Free Acid	AOAC 962.19	
		Total Acid	AOAC 962.19	
	Food - Animal Feed	Moisture	AOAC 930.15	P
		Ash	AOAC 942.05	
		Fat	AOAC 920.39	
	Carbon & Low Alloy Steel	Carbon, Silicon Manganese, Phosphorous Sulphur, Nickel Chromium, Vanadium Molybdenum, Nitrogen Copper, Titanium	ASTM E 415 – 17	P
	Stainless Steel	Carbon, Chromium Manganese, Molybdenum Nickel, Phosphorous Silicon, Sulfur	ASTM E 1086-14	P
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	P
		Moisture Content of Soil	BS EN ISO 17892 Part 1:2014	
			BS 1377-2:1990 AMD 9027-1996, CL 3.2	



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Physical – Construction	Soil & Rock	Particle Size distribution	BS EN ISO 17892 Part 4:2016 BS 1377 PART-2:1990, AMD 9027-1996, CL 9.2&9.3	P
		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	P
		Liquid Limit, Plastic Limit and Plasticity Index of Soil	BS EN ISO 17892 Part 12: 2018 BS-1377 PART-2:1990, AMD 9027-1996 CL 4.3, CL 4.5 & CL 5	P
	Soil	Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer	ASTM D1557– (2021) AASHTO T 180-2021	P
		Liquid Limit of Soil	AASHTO T-89-2013	
		Plastic Limit and Plasticity Index of Soil	AASHTO T-90-2020	
		Liquid Limit, Plastic Limit, and Plasticity Index of Soils.	ASTM D4318-17e1	
		Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216-19	
		Particle Size Distribution- Hydrometer Method	BS 1377-2:1990, AMD 9027-1996, CL 9.5	



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Physical – Construction	Cement	Standard Consistency	BSEN-196-3:2016, CL 5 & CL 6	P	
		Setting time (initial & final)			
		Soundness	BS EN 196-3:2016		
		Flexural & Compressive Strength	BS EN 196-1:2016		
		Blain Air Permeability	BS EN 196-6:2018		
	Cement/ Grout/ Epoxy	Compressive Strength	ASTMC109/C109M-2021	P	
	Steel	Rebend Test		BS 4449:2005+A3:2016 BSEN ISO-15630-1,2019	P
		Steel Tensile test		BS 4449:2005+A3:2016, BSEN ISO-15630-1,2019, BS EN ISO 6892-1: 2019	
	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	
		Sieve analysis of fine and coarse aggregate		BS 812 PART-103:1985, 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			



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Physical – Construction	Aggregate	Moisture content	BS 812 PART-109:1990- clause 6	P
		Soundness of aggregates by use of sodium sulfate & magnesium sulfate	ASTM C88 / C88M - 18	
		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	
		Sand equivalent value	ASTM D 2419 :2014	
		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 AASHTO T-2-91(2015)	S/P
		10% Fine Value	BS 812 -111:1990	P
		Shell Content	BS 812 -106:1985 BSEN 933-7:1998	
		Method of normal curing of test specimens (20°C method)	BS 1881 Part 111:1983 AMD. 9387:1997	



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Physical – Construction	Aggregate	Methods for determination of density of hardened concrete	BS 1881 Part 114:1983 AMD. 6721:1989	P
		Method for determination of compressive strength of concrete cubes	BS 1881 Part 116:1983 AMD. 6720: :1991	
		Shape, dimensions and other requirements for specimens & moulds	BS EN 12390 Part 1:2021	
		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	
		Water absorption of hardened concrete.	BS 1881 P 122:2011+A1-2020	
		Initial surface water absorption of concrete	BS 1881 PART 208:1996	
	Concrete	Water Absorption Test on Concrete Cores	BS 1881 P 122:2011+A1-2020	P
		Rapid chloride permeability	ASTM C1202:2019	S/P
		Pull of test	BS 1881 –207 : 1992	



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Physical – Construction	Fresh Concrete	Temperature of Freshly Mixed Hydraulic-Cement Concrete	ASTM C1064 / C1064M - 17	S/P
		Slump	ASTM C143 / C143M-(2020)	
			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 232-20	
		Density	BS EN 12350-6:2019	
	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	
Tensile Strength & Elongation	ASTM D5147 / D5147M – 18, CL 7			
Geotextile	Tensile & Elongation (wide width strip method)	ASTM D4595 – 17	P	



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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	Geotextile	Static Puncture test	ASTM D6241 – 14	P
		Trapezoid Tearing Strength	ASTM D4533 / D4533M – 15	
		Mass per unit area	ASTM D5261-10(2018)	
	GRP (Glass re- inforcement pip)	Tensile strength	ASTM D 638:2014	P
		Stiffness test	ASTM D2412 - 11(2021)	
		Flexure strength test	ASTM D 790:2017	
		Dimension	ASTM D3567 – 17	
	Self-adhesive membrane	Tensile (FILM)	ASTM D 882 :2018	P
		Elongation (FILM)	ASTM D 882 :2018	
		Puncture resistance	ASTM E154 / E154M - 08a (2019) e1, CL 10	
		Tear resistance	ASTM D 1004: 2021	
		Water absorption	ASTM D5147 / D5147M – 18, CL 10	
	Plastics & Water Stopper	Tensile Properties	BS 2782-0:2011 ISO 527-2:2012	P
		Tensile & Elongation	ASTM D638-14	
		Shore A & D hardness	ASTM D2240 - 15e1	
	Joint filler board	Compression recovery	ASTM D 545-19, CL 7.2	P
50% compression		ASTM D 545-19, CL 7.2		
Extrusion		ASTM D 545-19, CL 7.3		
Distortion		ASTM D994 / D994M - 11(2016)		



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Physical – Construction	Joint filler board	Expansion in Boiling Water	ASTM D 545 -19, CL 7.1	P
		Brittleness	ASTM D 994-11(2016)	
		Water absorption	ASTM D 545 -19, CL 7.6	
		Density	ASTM D 545 -19, CL 7.7	
	HDPE Liner (High density polyethylene)	Tensile Strength	ASTM D 638:2014	P
		Tear Strength	ASTM D 1004:2021	
		Density	ASTM D 792:2020	
	Masonry Block	Dimension	BS 6073-1 :1981 Appendix A: AMD 4462-84	P
			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-18a-2021		
	Paving Block	Dimension	BS 6717-1:1993	P
		Compressive strength	BS 6717-1:1993	
Water Absorption		BSEN-1338 – 2003		
Paving Block/ Interlocking /Concrete Tiles	Flexural Strength	ASTM C 293/M293:16	P	
Kerb Stone	Dimension	BS 7263-1: 2001	P	
		BS EN 1339: 2003		



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Physical – Construction	Kerb Stone	Water Absorption	BS 7263 – 1: 1994 BS EN 1339: 2003	P			
		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 2505-2015	
			Polyolefin pipes		Tensile & Elongation	ISO 6259-1-2015 & ISO 6259 3-2015	P
GRC (Glass Reinforced Concrete)	Water Absorption		ASTM C948 – 81(2016)	P			
	Flexural Strength		ASTM C947-03(2016)				
Compressive Strength	BS EN 12390-3:2019						
Multi Wire Prestressing Strand	Tensile & Elongation	ASTM A1061 / A1061M - 20ae1	P				
Peel or stripping Strength of adhesive bonds	Peel Strength	ASTM D 903-98 (2017)	P				



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Physical Construction Materials	Non- Reinforced Geo Membranes	Shear & Peel strength	ASTM D 6392:12(2018)	P
	Steel Products	Tensile test	ASTM A370-20	P
	Metallic Materials	Tensile testing	BS EN ISO6892-1:2019	P
	Plastics	Tensile Testing	ASTM D638-2014	P
		Water absorption	ASTM D570-98(2018)	P
	Plastic film and Sheeting	Tear Strength	ASTM D1004-2021	P
	Rigid Plastics	Barcol Hardness	ASTM D 2583:13a	P
	Geosynthetics	Tensile Strength	EN ISO 10319:2015	P
	Geosynthetic Clay Liner	Tensile Strength	ASTM D 6768:2020	P
	Geosynthetic Clay liner	Peel Strength	ASTM D6496:2020	P
	Geosynthetics	Thickness	ASTM D5199-12(2019)	P
	Geosynthetics	Thickness	ISO 9863-1-2016	P
	Geosynthetic Clay Liner	Mass per unit Area	ASTM D5993-18	P
	Geosynthetics	CBR puncture	EN ISO 12236-2006	P
	Butt fused Joint Polyethylene pipes	Tensile Strength	ISO 13953-2001 /AMD.1:2020(E)	P
END				