

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>4560</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Exova (Qatar) LLC</h3> <p>Issue No: 031 Issue date: 25 June 2018</p>	
	<p>Street 46 Gate 16 Salwa Industrial Area Doha State of Qatar</p>	<p>Contact: Mr Manohar Nayagar Tel: +974 44603202 Fax: +974 44603246 E-Mail: middle.east@exova.com Website: www.exova.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Exova (Qatar) LLC is accredited for a flexible scope that enables them to establish site laboratories to conduct the activities detailed below under Construction Materials Testing and Site Sampling, in accordance with their documented in-house procedure: SLP 4.16.

Those flexible scope activities with no current location are noted as NCL (No Current Location)

Current locations covered by the scope of accreditation:

Location details	Activity	Location code
<p>Address Exova (Qatar) LLC Street 46 Gate 16 Salwa Industrial Area Doha State of Qatar</p> <p>Postal Address Exova (Qatar) LLC PO Box 23650 Doha State of Qatar</p>	<p>Local contact Mr Manohar Nayagar Tel: +974 44603202 Fax: +974 44603246 E-Mail: middle.east@exova.com</p> <p>Aggregates – Chemical tests; Bituminous Mixtures – Physical & Mechanical tests Concrete – Chemical tests Soils –Chemical tests Metals & Weldments - Chemical tests Metals & Weldments - Mechanical tests Metals & Weldments - Metallurgical tests Waters & Soils – Chemical tests; Waters – Microbiological tests</p>	A
<p>Address Exova (Qatar) LLC Street 46 Gate 226 Salwa Industrial Estate Doha State of Qatar</p> <p>Postal Address Exova (Qatar) LLC PO Box 23650 Doha State of Qatar</p>	<p>Local contact Mr Manohar Nayagar Tel: +974 44603202 Fax: +974 44603246 E-Mail:middle.east@exova.com</p> <p>Aggregates – Physical & Mechanical tests Bituminous Mixtures – Physical & Mechanical tests Concrete – Physical & Mechanical tests Soils – Physical & Mechanical tests; Rock - Physical & Mechanical tests;</p>	C



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Current locations covered by the scope of accreditation: (cont'd)

Location details	Activity	Location code
<p>Address Exova (Qatar) LLC PSH Green Metro Green Line Site Laboratory Doha State of Qatar</p> <p>Postal Address Exova (Qatar) LLC PO Box 23650 Doha State of Qatar</p>	<p>Local contact Mr Manohar Nayagar Tel: +974 44603202 Fax: +974 44603246 E-Mail:middle.east@exova.com</p>	<p>Aggregates – Physical & Mechanical tests Concrete – Sampling, Chemical, Physical & Mechanical tests Soils – Physical & Mechanical tests</p> <p>F</p>
<p>Address Exova (Qatar) LLC QDVC – Bin Omran Site Laboratory New Orbital Highway Contract 2 Doha State of Qatar</p> <p>Postal Address Exova (Qatar) LLC PO Box 23650 Doha State of Qatar</p>	<p>Local contact Mr Manohar Nayagar Tel: +974 44603202 Fax: +974 44603246 E-Mail:middle.east@exova.com</p>	<p>Aggregates – Physical & Mechanical tests; Soils – Physical & Mechanical tests; Concrete – Physical & Mechanical tests</p> <p>H</p>



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Address Exova (Qatar) LLC Street 46 Gate 16 Salwa Industrial Area Doha State of Qatar</p> <p>Local contact Mr Manohar Nayagar Tel: +974 44603202 Fax: +974 44603246 E-Mail:middle.east@exova.com</p> <p>Postal Address Exova (Qatar) LLC PO Box 23650 Doha State of Qatar</p>	<p>Metals & Weldments - Metallurgical tests</p>	<p>B</p>
<p>Address Exova (Qatar) LLC Street 46 Gate 226 Salwa Industrial Area Doha State of Qatar</p> <p>Local contact Mr Manohar Nayagar Tel: +974 44603202 Fax: +974 44603246 E-Mail:middle.east@exova.com</p> <p>Postal Address Exova (Qatar) LLC PO Box 23650 Doha State of Qatar</p>	<p>Aggregate – Sampling Bituminous Mixtures – Sampling; Physical and Mechanical tests Concrete – Sampling, Physical & Mechanical tests Soils – Physical and Mechanical tests</p>	<p>D</p>



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Analytical Chemical Testing			
WATER	Conductivity	APHA 2510B Documented In-house method EX-M-OP-CH-DOH-MD201	A
	Chloride (Cl)	APHA 4500 CL B Documented In-house method EX-M-OP-CH-DOH-MD205	A
	Ammonia	APHA 4500 Documented In-house method EX-M-OP-CH-DOH-MD302 by colorimetry	A
	pH value	APHA 4500pH Documented In-house method EX-M-OP-CH-DOH-MD301	A
	Residual (free available) Chlorine	APHA SM 4500 - Cl Documented In-house method EX-M-OP-CH-DOH-MD206 by colorimetry	A
	Sulphate (SO4)	APHA SM 4500 – SO4 C Documented In-house method EX-M-OP-CH-DOH-MD324	A
	BOD	APHA 5210B Documented In-house method EX-M-OP-CH-DOH-MD304 by oximeter	A
	Total suspended solids(TSS)	APHA 2540D Documented In-house method EX-OP-CH-CH-MD209 by gravimetry	A
COD	APHA 5220B Documented In-house method EX-M-OP-CH-DOH-MD307 by Hach digestion and colorimetry	A	



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WATER: Drinking Water; Surface Water; Ground Water; Waste Water and Saline Water	Total dissolved solids (TDS)	APHA 2540B Documented In-house method EX-M-OP-CH-DOH-MD208C by gravimetry	A
WATERS AND SOILS	Benzene, Toluene, Ethylbenzene and Xylenes (BTEXs) and Volatile Organic Compounds (VOCs) including Chloromethane Chloroform Chloroethane Chloroethene (Vinyl Chloride) Dichloromethane (Methylene Chloride) 1,1-Dichloroethane 1,2-Dichloroethane cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 1,1-Dichloropene cis-1,3-Dichloropropene trans-1,3-Dichloropropene Trichloroethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,2,3-Trichloroethane Carbon Tetrachloride 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene Chlorobenzene 2-Chlorotoluene Dichlorofluoromethane Dichlorofluoromethane Bromomethane Bromochloromethane Bromodichloromethane Dibromomethane Chlorodibromomethane	EPA 502.2/624 & 8260B Documented In-house method EX-M-OP-CH-DOH-MD404A (Waters) by GC-MS; EX-M-OP-CH-DOH-MD404B (Soils) by GC-MS	A



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WATERS AND SOILS (cont'd)	Benzene, Toluene, Ethylbenzene and Xylenes (BTEXs) and Volatile Organic Compounds (VOCs) including (cont'd)	EPA 502.2/624 & 8260B Documented In-house method EX-M-OP-CH-DOH-MD404A (Waters) by GC-MS;	A
	Bromoform Ethylene Dibromide Bromobenzene 1,2-Dibromo-3-chloropropane Benzene Toluene	EX-M-OP-CH-DOH-MD404B (Soils) by GC-MS	
	Semi Volatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbon (PAHs) including	EPA 625 & 8270C Documented In-house method CHEM 4812-DOH by GC-MS	A
	Azobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2,4-Trichlorobenzene Hexachlorobenzene Nitrobenzene 2,4-Dinitrotoluene 2,6-Dinitrotoluene Phenol 2-Chlorophenol 2,4-Dichlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol o-Cresol p-Cresol 2-Nitrophenol 2,4-Dimethylphenol 4-Chloro-3-methylphenol Dimethyl phthalate Diethyl phthalate Bis(2-ethylhexyl)phthalate Butyl benzylphthalate Di-n-butylphthalate Di-n-octylphthalate 4-Chlorodiphenylether 4-Bromophenyl phenylether Dibenzofuran Isophorone Hexachloroethane	PAH (Waters): Documented In-house method EX-M-OP-CH-DOH-MD403A; PAH (Soils): Documented In-house method EX-M-OP-CH-DOH-MD403B	



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WATERS AND SOILS (cont'd)	Semi Volatile Organic Compounds (SVOCs) and Polycyclic Aromatic Hydrocarbon (PAHs) including (cont'd)	EPA 625 & 8270C Documented In house method CHEM 4812-DOH by GC-MS PAH (Waters): Documented In-house method EX-M-OP-CH-DOH-MD403A;	A
	n-nitrosodi-n-propylamine Bis(2-chloroisopropyl) ether Bis 92-chloroethyl)ether n-nitrosodimethylamine bis(2-chloroethoxy)metyhane 4-Chloroaniline 2-Nitroaniline Hexachlorobutadiene Hexachlorocyclopentadiene Naphthalene 2-Methylnaphthalene 2-Chloronaphthalene	PAH (Soils): Documented In-house method EX-M-OP-CH-DOH-MD403B	A
	Polycyclic Aromatic Hydrocarbons (PAHs) including:	EPA 550.1/610 & 8270C Documented In-house method EX-M-OP-CH-DOH-MD403A (soils) by GC-MS	A
	Naphthalene Acenaphthene Acenaphthylene Anthracene Carbazole Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)preylene Benzo(a)pyrene Chrysene Fluorene Fluoroanthene Dibenze(a,h)anthracene Ideno(1,2,3-c,d)Pyrene Phenathrene Pyrene	EX-M-OP-CH-DOH-MD403B (waters) by GC-MS	



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Waters (Potable, Effluent and Saline)	Metals including; (* Excluding Sodium for Saline Waters)	Documented In-house Method EX-M-OP-CH-DOH-MD106	A
	Aluminium Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Cobalt Copper Chromium Iron Lead Lithium Magnesium Manganese Mercury Molybdenum Nickel Phosphorus Potassium Selenium Silicon Sodium * Silver Strontium Thallium Tin Titanium Uranium Vanadium Zinc Phenols	Documented In-house Method EX-M-OP-CH-DOH-MD415 : EPA by SPE, Derivatisation and GC-MS	A



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Waters (Potable, Wastewater and Recreational)	Turbidity	APHA 2130A: Documented In-house Method EX-M-OP-CH-DOH-MD203 by Nephelometry	A
	Total Alkalinity	APHA 2320B: Documented In-house Method EX-M-OP-CH-DOH-MD210 by titration	A
	Total Hardness	APHA 2340C; Documented In-house Method EX-M-OP-CH-DOH-MD211 by EDTA titration	A
	Total Kjeldahl Nitrogen	APHA 4500N : Documented In-house Method EX-M-OP-CH-DOH-MD318 by distillation	A
	Oil and Grease	APHA 5520D: Documented In-house Method EX-M-OP-CH-DOH-MD414 by Soxhlet extraction gravimetry	A
End of section			



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Microbiological Testing			
Waters (Potable, Wastewater and Recreational)	Total Bacterial Count (Heterotrophic Plate Count)	Documented In-house Method EX-M-OP-EN-MD001 based on standard method APHA Method 9125b	A
	Enumeration of Coliforms and E.coli	MPN using IDEXX Colilert, Documented In-house Method EX-M-OP-EN-MD002 based on standard method APHA Method 9223	A
	Enumeration and Confirmation of Total Coliforms	Membrane Filtration, Documented In-house Method EX-M-OP-EN-MD003 based on standard method APHA Method 9222b	A
	Enumeration and Confirmation of Faecal Coliforms	Membrane Filtration, Documented In-house Method EX-M-OP-EN-MD004 based on standard method APHA Method 9222d	A
	Enumeration of Intestinal Enterococci	Membrane Filtration, Documented In-house Method EX-M-OP-EN-MD005 based on standard method BSEN ISO 7899-2:2000 and BS 6068: Section 4.4: 2000	A
	Detection of Legionella spp (not including species identification)	Documented In-house Method EX-M-OP-EN-MD010 based on CCFRA Manual of Microbiological Methods (Manual 43) 5 th Edition 2007 Method 3.9.1	A
	Enumeration and Confirmation of Psuedomonas Aeruginoa	Membrane Filtration Documented In-house Method EX-M-OP-EN-MD006 based on ISO16266:2006	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATER – Closed Hot and Cold Systems, Primary Storage Tanks and Treated Bathing Water	Detection and Enumeration of Legionella Species (not including species identification)	Documented In-house Method EX-M-OP-EN-MD021 using direct membrane filtration based on BS EN ISO 11731-2:2009 and BS 6068 – 4.18:2004	A
End of Section			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Construction Materials Testing			
AGGREGATES	Particle density and water absorption for aggregate 10mm nominal size and smaller	BS 812:Part 2:1995	C
	Particle density and water absorption for aggregate all larger than 10mm	BS 812:Part 2:1995	C
	Particle density and water absorption for aggregate between 40mm and 5mm	BS 812:Part 2:1995	C
	Particle size distribution - washing and sieving	BS 812:Part 103 Section 103-1: 1985 (withdrawn)	C
	Particle size distribution - dry sieving	BS 812:Part 103 Section 103-1: 1985 (withdrawn)	C
	Moisture content - oven dry method	BS 812:Part 109:1990	C, H
	Aggregate crushing value - particle size 10mm and greater <i>(Forces from 30 to 3000kN)</i>	BS 812:Part 110:1990	C
	Ten per cent fines value - dry - particle size 10mm and greater <i>(Forces from 30 to 3000kN)</i>	BS 812:Part 111:1990	C
	Aggregate impact value - dry	BS 812:Part 112:1990	C
	Acid soluble chloride salt content	BS 812:Part 117:1988 (App C) (withdrawn)	A
	Total sulphate content by acid extraction	BS 812:Part 118:1988 (withdrawn)	A
	Organic impurities	ASTM C40-16	A
Magnesium soundness	ASTM C88-13	C	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Materials finer than 75µm (No 200) in mineral aggregates by washing	ASTM C117-17	C
	Lightweight particles	ASTM C123/C123M-14	C
	Specific gravity and absorption of coarse aggregates	ASTM C127:15	C
	Specific gravity and absorption of fine aggregates	ASTM C128:15	C
	Sieve analysis of fine and coarse aggregates	ASTM C136:14	C
	Clay lumps and friable particles in aggregates	ASTM C142/C142M-17	C
	Resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131:14	C
	Resistance to degradation of large-size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-16	C
	Sieve Analysis of Mineral Filler for Bituminous Paving Mixtures	ASTM D546-10	C
	Reducing samples of aggregate to testing size	ASTM C702-11	C
	Void content of fine aggregate	ASTM C1252-06	C
	Plasticity index	ASTM D4318-10e1	C
	Sieve Analysis.	AASHTO T 27:2011 AASHTO T 11:05 (2009)	C
	Sand Equivalence	AASHTO T 176:2017	C
Magnesium Sulphate Soundness.	AASHTO T 104:99 (2011)	C	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Liquid Limit & Plastic Limit.	AASHTO T89:10 AASHTO T90:00 (2008)	C
	Clay Lumps and Friable Particles in Aggregate	AASHTO T 112:00 (2008)	C
	Percentage of Fractured Particles in Coarse Aggregates.	ASTM D5821:17	C
	Los Angeles Abrasion	AASHTO T 96:02 (2010)	C
	Flat and Elongated Particles of Coarse Aggregates.	ASTM D4791:10	C
	Un-compacted Void content of Fine Aggregate	AASHTO T304:17	C
	Particle size distribution - wet and dry sieving	BS EN 933-1:2012	C, F & H
	Method of reducing laboratory samples	BS EN 933-2:1999	C
	Flakiness index	BS EN 933-3:2012	C & F
	Shape index	BS EN 933-4:2008	C
	Shell content	BS EN 933-7:1998	C & F
	Sand Equivalent	BS EN 933-8:2012	C
	Sand Equivalent	BS EN 933-8:2012 + A1:2015	NCL
	Assessment of fines – Methylene blue test	BS EN 933-9:2009 + A1:2013	A
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2010	C
Water content - drying in a ventilated oven	BS EN 1097-5:2008	C, F & H	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Particle density and water absorption – wire basket method for aggregate particles between 31.5mm and 63mm	BS EN 1097-6:2013	C & F
	Particle density and water absorption – pycnometer method for aggregate particles between 4mm and 31.5mm	BS EN 1097-6:2013	C, F & H
	Particle density and water absorption – pycnometer method for aggregate particles between 0.063mm and 4mm	BS EN 1097-6:2013	C, F & H
	Determination of Acid Soluble Sulphate content	BS EN 1744-1:2009 Section 12	A
	Determination of Acid Soluble Chloride content	BS EN 1744-5:2006	A
	Magnesium sulphate soundness test	BS EN 1367-2:2009 (not including Annex B & C)	C
BITUMEN	Determining the Separation Tendency of polymer from polymer modified asphalt	ASTM D7173-14	A
BITUMINOUS MIXTURES	Penetration of bituminous materials	ASTM D5/D5M-13	A
	Determination of Softening Point (Ring and Ball Method)	ASTM D36-14e1	A
	Flash and Fire Points by Cleveland Open Cup Tester	ASTM D92-16b	A
	Water in Petroleum Products and Bituminous Materials by Distillation	ASTM D95-13e1	A
	Ductility	ASTM D113-07 (withdrawn)	A



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BITUMINOUS MIXTURES (cont'd)	Solubility of Asphalt Materials in Trichloroethylene	ASTM D2042-15	A
	Effect of heat on a moving film of Asphalt (rolling thin film oven test)	ASTM 2872-12e1 AASHTO T240(2013)	A
	Viscosity determination of Asphalt at elevated temperature using a rotational viscometer	ASTM D4402/D4402M-13	A
	Elastic Recovery	ASTM D6084/D6084M-13	A
	Multiple Stress Creep and Recovery (MSCR) of Asphalt Binder Using a Dynamic Shear Rheometer	ASTM D7405-15; AASHTO T350-14	A
	Accelerated aging of Asphalt Binder using a pressurised aging vessel (PAV)	ASTM D6521-13	A
	Flexural Creep Stiffness of Asphalt Binder using the bending rheometer (BBR)	ASTM D6648-08	A
	Rheological properties of Asphalt Binder using a dynamic shear rheometer	ASTM D7175-15	A
	Density of bitumen	ASTM D70-09e1	A
	Bulk specific gravity and density of compacted bituminous mixtures using coated samples	ASTM D1188-15	C
	Theoretical maximum specific gravity and density of bituminous mixtures	ASTM D2041/D2041M-11	C
Bulk specific gravity and density of compacted bituminous mixtures	ASTM D2726/D2726M-14	C	
Binder extraction	ASTM D2172/D2172M-17	C	



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BITUMINOUS MIXTURES (cont'd)	Thickness or height of compacted bituminous paving mixture specimens	ASTM D3549/D3549M-11	C
	Mechanical size analysis of extracted aggregates	ASTM D5444-15	C
	Asphalt content of hot-mix asphalt by ignition method	ASTM D6307-10	C
	Preparing and Determining the density of hot mix Asphalt (HMA) specimens by means of the Superpave Gyrotory compactor	ASTM D6925-15	A
	Preparation of bituminous specimens using Marshall apparatus	ASTM D6926-16	C
	Marshall stability and flow (Forces from 2.5 to 50 kN)	ASTM D6927-06	C
	Resistance of compacted hot mix asphalt (HMA) to moisture-induced damage – indirect tensile (IDT) strength	ASTM D6931-12	C
	Mixture conditioning of hot-mix Asphalt (HMA)	AASHTO R30-02(2010)	C
	Flash and Fire Points by Cleveland Open Cup	AASHTO T48-17	A
	Determination of Bulk Density of Bituminous Material	AASHTO T166	C
	Specific Gravity of Semi-Solid Asphalt Materials	AASHTO T228-13	C
	Elastic Recovery Test of Asphalt Materials by Means of a Ductilometer	AASHTO T301-13	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MIXTURES (cont'd)	Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)	AASHTO T313-12	A
	Determining the Rheological Properties of Asphalt Binder using a Dynamic Shear Rheometer (DSR)	AASHTO T315-16	A
	Viscosity Determination of Asphalt Binder Using Rotational Viscometer	AASHTO T316-13	A
	Multiple Stress Creep (MSCR) Test of Asphalt Binder Using a Dynamic Shear Rheometer (DSR)	AASHTO T350-14	A
	Particle size distribution	BS EN 12697-2:2002	C
	Maximum density - volumetric procedure	BS EN 12697-5:2009	C
	Bulk density - dry - saturated surface dry (SSD) - sealed specimens - by dimensions	BS EN 12697-6:2012	C
	Void characteristics	BSEN 12697-8:2003	C
	Preparation of samples for determining binder content, water content and grading	BSEN12697-28: 2011	C
	Determination of dimension of Bituminous Specimens	BS EN 12697-29:2002	C
	Specimen preparation by impact compactor	BS EN 12697-30:2012	C
	Marshall test	BS EN 12697-34:2012	C
Determination of the thickness of a bituminous pavement destructive measurement	BS EN 12697-36:2003	C	



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BITUMINOUS MIXTURES (cont'd)	Binder content by ignition	BS EN 12697-39:2012	C
CEMENT	Determination of Strength	BS EN 196-1:2016	C
	Determination of Sulphate	BS EN 196-2:2013 CI 8	A
	Determination Residue Insoluble	BS EN 196-2:2013 CI 9 & 10	A
	Determination of Pure Silica	BS EN 196-2:2013 CI 13.6	A
	Determination of Total Silica	BS EN 196-2:2013 CI 13.9	A
	Determination of Iron (III) - Ferric - Oxide	BS EN 196-2:2013 CI 13.10	A
	Determination of Aluminium Oxide	BS EN 196-2:2013 CI 13.11	A
	Determination of Calcium Oxide by EDTA (alternative method)	BS EN 196-2:2013 CI 13.14	A
	Determination of Magnesium Oxide by EDTA (alternative method)	BS EN 196-2:2013 CI 13.15	A
	Chloride content	BS EN 196-2:2013 clause 14	A
	Loss on ignition	BS EN 196-2:2013 clause 17	A
	Determination of Setting Times and Soundness	BS EN 196-3:2016	C
	Determination of Fineness (Blaine Apparatus)	BS EN 196-6:2010	C
	Amount of Water Required for Normal Consistency by Vicat Needle	ASTM C187-16	C
	Time of Setting of Hydraulic Cement by Vicat Needle	ASTM C191-13	C



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CONCRETE - hardened	Chloride penetration test - chloride migration	NTB 492:1999-11	C
	Compressive Strength of Cylindrical Concrete Specimens	ASTM C39/C39M-18	C
	Capping Cylindrical Concrete Specimens	ASTM C617/C617M-15	C
	Rapid Chloride Permeability	ASTM C1202-12	C & F
	Density	BS 1881:Part 114:1983 (withdrawn)	C
	Compressive strength of cubes - including curing (Forces from 30 to 3000 kN)	BS 1881:Part 116:1983 (withdrawn) BS 1881:Part 111:1983 (withdrawn)	C
	Water absorption	BS 1881:Part 122:2011	C & H
	Initial Surface Absorption of water	BS1881:Part 208:1996	C
	Determination of Chloride Content	BS 1881-124: 2015 Clause 12.1	A
	Determination of Sulphate Content	BS 1881-124: 2015 Clause 12.2	A
	Shape and dimensions of specimens	BS EN 12390-1:2012	C, F & H
	Making test cubes and curing	BS EN 12390-2:2009	C & F
	Compressive strength of cubes - including curing (Forces from 30 to 3000 kN)	BS EN 12390-2: 2009 BS EN 12390-3: 2009	C, F & H
	Flexural strength of concrete	BS EN 12390-5:2009	C
	Tensile splitting strength of concrete	BS EN 12390-6:2009	C
Density	BS EN 12390-7: 2009	C, F & H	
Water Penetration	BS EN 12390-8:2009	C, F & H	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CONCRETE – hardened (cont'd)	Compressive strength of cores (Forces from 30 to 3000kN)	BS EN 12504-1:2009	C
	Flexural tensile strength (limit of proportionality (LOP), residual)	BS EN 14651:2005 + A1:2007	C
MASONRY	Water absorption of masonry blocks	BS EN 771-1:2011	C
	Water Absorption	BS EN 771-3:2011 + A1:2015	C
	Determination of Compressive Strength	BS EN 772-1:2011 + A1:2015	C
	Dimensions of masonry blocks	BS EN 772-16:2011	C
PRECAST CONCRETE BLOCKS	Water absorption of masonry blocks	ASTM C140-14b	C
PRECAST CONCRETE KERB UNITS	Dimensions and water absorption of kerbs	BS EN 1340:2003 Annex C & E	C
	Transverse Strength	BS EN 1340:2003 Annex F	C
PRECAST CONCRETE PAVING BLOCKS	Dimensions and water absorption of paving blocks	BS 6717 annex A & B: 2001	C
	Water Absorption	BS EN 1338:2003 Annex E	C
PRECAST CONCRETE PAVING FLAGS	Water Absorption	BS EN 1339:2003 Annex E	C
	Transverse Strength	BS EN 1339:2003 Annex F	C
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377:Part 2:1990	C & F
	Liquid Limit - Cone penetrometer	BS 1377:Part 2:1990	C



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Liquid Limit - Casagrande method	BS 1377:Part 2:1990	C
	Plastic Limit and Plasticity Index	BS 1377:Part 2:1990	C
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	C, F & H
	Particle size distribution - dry sieving	BS 1377:Part 2:1990	C, F & H
	Determination of Organic Matter Content	BS 1377-3:1990 Clause 3	A
	Determination of the Sulphate content of Soil (Acid extract and water extract)	BS 1377-3:1990 Clause 5.2 & 5.3	A
	Determination of the chloride content (Acid extract and water extract)	BS 1377-3:1990 Clause 7.2 & 7.3	A
	Determination of pH of Soil	BS 1377-3:1990 Clause 9	A
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377:Part 4:1990	C, F & H
	CBR (California Bearing Ratio) of laboratory-compacted soils	BS 1377:Part 4:1990	C & H
	Swelling of soaked CBR specimen	BS 1377: Part 4: 1990	C & H
	Water Absorption	AASHTO T 85	C
	CBR of laboratory-compacted soils (soaked)	AASHTO T193 (10)	C
	Moisture Content – Oven Dried	AASHTO T 265-15	C
	Amount of Material Finer Than No.200 Sieve in Soil by Washing	ASTM D1140-17	C
Dry density /moisture content relationship – 4.5kg rammer	ASTM D1557-12	C	



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SOILS for civil engineering purposes (cont'd)	Laboratory California Bearing Ratio (CBR)	ASTM D1883-16	C
	Water (Moisture) Content	ASTM D2216-10	C
	Sand equivalent value	ASTM D2419-14	C
SOILS and STABILISED MATERIALS	Preparation of specimens compacted with constant compacted effort	BS 1924: Part 2: 1990 clause 4.1.5	C
	Compressive strength of cubic specimens	BS 1924: Part 2: 1990 clause 4.2	C
ROCK	Uniaxial compressive strength of rock cores	ASTM D7012-14	C
	Preparation of rock cores for strength testing	ASTM D4543-08	C
	Determination of armourstone particle density and water absorption	BS EN 13383-2:2013	C

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Metallurgical, Mechanical and Associated Chemical Testing			
Plain carbon and low carbon alloy steels	Mechanica;l Tests		
	Rockwell (B and C Scales)	BS EN ISO 6508-1:2005 ASTM E18-17	A
	Vickers (HV5 & 10)	BS EN ISO 6507-1:2005 ASTM E92-17	A
	Charpy impact (-196°C and -101°C to ambient)	ASTM E23-12c	A
	<u>Fracture toughness</u>		
	CTOD (in the temperature range 77K to ambient)	BS 7448-1:1991 BS 7448:Part 2:1997(Withdrawn)	A
	Tensile at ambient temperature (forces up to 2000 kN)	BS EN ISO 6892-1:2009 ASTM E8/E8M-15a ASTM A370-15 API 5L 45 th Edition 2013	A
	Ferrite content	Documented In-House Method QMET 04 using Fischer Ferritscope	A
Replica Surface Microstructure	ASTM E1351-01(2012) Documented In House Method Exova Q-Site 02	A & B	
Carbon steel bars for the reinforcement of concrete	Bend	BS 4449:1988 (withdrawn) ASTM A615/A615M-15ae ¹	A
	Rebend	BS 4449:1997 (withdrawn) BS 4449:2005 + A2:2009	A
	Tensile	BS 4449:1997 (withdrawn) BS 4449:2005 + A3:2016 ASTM A615/A615M-15ae ¹	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Bolts and Studs (In full section and machined test pieces)	Tensile	BS EN ISO 898-1:2013 ASTM F606-13 & F606M-13a	A
Multi Wite Steel Strand	Tensile strength	ASTM 1061/A1061M-09 BS EN ISO 1560-3: 2010	A
Weldments	Bend, Fillet weld fracture, Hardness, Impact, Nick-break, Tensile, CTOD, Macro- and Micro-examination in accordance with specific welding codes	BS EN ISO 5173:2010 + A1:2011 BS EN ISO 9017:2013 BS EN ISO 9015-1:2011 BS EN ISO 4136:2012 BS EN ISO 5178:2011 BS 7448:Part 2:1997(Withdrawn) BS EN ISO 17639:2013 BS 4515-1:2009 BS 4515-2:1999 BS EN ISO 15614-1:2004 + A1:2008 BS EN ISO 15614-2 :2005 BS EN 287:Part1:2011 BS EN ISO 9601-1:2013 BS EN ISO 9606-2:2004 ASME IX-15 API 1104 21 st Edition 2013 AWS D1.1/D1.1M-2015	A
Manhole tops for vehicular and pedestrian areas	Deflection (up to 1000 kN)	BS EN 124:2015	A
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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Site Sampling and Testing			
AGGREGATES	Sampling coarse, fine and all-in aggregates - from heaps	BS 812:Part 102:1989 (withdrawn)	D
	Sampling of coarse and fine aggregates – from stockpiles	BS EN 932-1:1997	D & F
	Sampling of aggregates	ASTM D75/75M-14	D
BITUMINOUS DISTRIBUTORS	Estimating Application Rate and Residual Application Rate	ASTM D2995-14	D
BITUMINOUS MIXTURES	Temperature of measurement – in a lorry	BS EN 12697-13:2000	D
	Sampling from - around the augers of a paver; from a lorry load of material	BS EN 12697-27:2001	D
	Preparation of samples for determining binder content, water content and grading	BS EN 12607-28:2001	D
	Sampling Bituminous Paving Mixtures	ASTM D979/D979M-15	D
	Sampling Compacted Asphalt Mixtures For Laboratory Testing	ASTM D5361/D5361M-16	D
	Preparation of samples for determining binder content	AASHTO T 328-05	D
CONCRETE- fresh	Sampling fresh concrete on site	BS 1881:Part 101:1983 (withdrawn)	D
	Sampling from initial discharge (slump test)	BS 1881:Part 102:1983 (withdrawn)	D
	Slump	BS 1881:Part 102:1983 (withdrawn)	D



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CONCRETE- fresh (cont'd)	Air Content – Method B	BS 1881:Part 106:1993 (withdrawn)	D
	Making and Curing Concrete Test Specimens in the Field	ASTM C31/C31M-15AE1	D
	Density of fresh concrete	ASTM C138-17a	D
	Slump of Hydraulic – Cement Concrete	ASTM C143/C143M-15a	D
	Sampling Freshly Mixed Concrete	ASTM C172/C172M-14a	D
	Air Content of Freshly Mixed Concrete by the Pressure Method	ASTM C231/C231M-14	D
	Temperature	ASTM C1064/C1064M-12	D & F
	Sampling of fresh concrete on site	BS EN 12350-1:2009	D & F
	Slump	BS EN 12350-2:2009	D & F
	Flow	BS EN 12350-5:2009	D
	Air Content of Fresh Concrete	BS EN 12350-7:2009	D
	V Funnel	BS EN 12350-9:2010	D
	L Box	BS EN 12350-10:2010	D
CONCRETE - hardened	Location of Reinforcement by Covermeter	BS 1881: Part 204: 1988	D
	Initial Surface Absorption of water	BS 1881:Part 208:1996	D
	Ultrasonic Pulse Velocity	BS EN 12504-4:2004	D
	Obtaining and Testing Drilled Cores	ASTM C42/C42M-16	D
	Rebound Number of Hardened Concrete	ASTM C805/C805M-13a	D



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CONCRETE – hardened (cont'd)	Pull-off Strength of Coatings Using a Portable Adhesion tester	ASTM D4541-09e1 Method B	D
	Pull-out Strength of Hardened Concrete	ASTM D7234-12	D
	Crack Width using Microscopic Gauge	Documented In-house Method SP12 – DOH Construction Materials	D
SOILS for civil engineering purposes	In-situ density – sand replacement method (large pouring cylinder)	BS 1377:Part 9:1990	D & F
	In-situ bulk density - nuclear method - comparative tests	BS 1377:Part 9:1990	D & H
	In-situ bulk density - nuclear method - absolute tests	BS 1377:Part 9:1990	D & H
	In-situ bulk density - nuclear method - compliance test	BS 1377:Part 9:1990	D
	In-situ California Bearing Ratio (CBR)	BS 1377:Part9:1990	D
	In-situ Resistivity - Wenner probe method	BS 1377:Part 9:1990	D
	Determination of the vertical deformation and strength characteristics of soil by the plate loading test	BS1377:Part 9:1990 Section 4.1	D
	In-situ bulk density – sand replacement test	ASTM D1556/1556M-16	D
	In-situ California Bearing Ratio (CBR) of Soils in Place	ASTM D4429-09a	D



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Density and Water content of soil and soil aggregate in place by nuclear methods - shallow depth	ASTM D2922-05/D3017-05 (withdrawn)	D
END			