

Schedule of Accreditation

Issued by

United Kingdom Accreditation Service

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

 <p>0927</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Construction Testing Solutions Limited trading as CET Infrastructure</p> <p>Issue No: 077 Issue date: 31 July 2020</p>	
	<p>CET Infrastructure Northdown House Ashford Road Harrietsham Kent ME17 1QW</p>	<p>Contact: Ben Roper Tel: +44 (0)1622 858545 E-Mail: ben.roper@cet-testing.com Website: www.cet-testing.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Construction Testing Solutions Limited trading as CET Infrastructure is accredited for a flexible scope that enables them to establish site laboratories to conduct the activities detailed below, in accordance with their documented in-house procedure: Laboratory Quality Manual Section 25 - These activities are identified by the current location code for operating site laboratories. Note: FLEX (Site) = Sampling or testing activities which can be performed at any location, FLEX (NCL) = No current location

Current locations covered by the scope of accreditation:

Location details	Activity	Location code
<p>Address CET Infrastructure Northdown House Ashford Road Harrietsham Kent ME17 1QW</p> <p>Local contact: Mr Ben Roper / Mr Russell Barnes Tel: +44 (0)1622 858545 Email: Ben.Roper@cet-testing.com Russell.Barnes@cet-testing.com</p>	<p>Aggregates Bituminous materials Concrete - fresh Concrete - hardened Soils</p>	A
<p>Address CET Infrastructure Heathrow Laboratory Unit 12 Britannia Industrial Estate Poyle Road Colnbrook SL3 0BH</p> <p>Local contact: Mr Ben Roper/ Mr Russell Barnes Tel: +44 (0)208 001 9296 Email: Ben.Roper@cet-testing.com Russell.Barnes@cet-testing.com</p>	<p>Aggregates Bituminous materials Concrete - fresh Concrete - hardened Soils</p>	D
<p>Address Billericay Laboratory Lawness Barns Mountnassing Road Billericay CM12 0TS</p> <p>Local contact: Mr Ben Roper / Mr Russell Barnes Tel: +44 (0)1277655377 Email: Ben.Roper@cet-testing.com Russell.Barnes@cet-testing.com</p>	<p>Soils</p>	B



0927

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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
Permanent Locations			
AGGREGATES	Sampling coarse, fine and all-in aggregates - from heaps	BS 812-102:1989	S
	Sampling - from stockpiles	BS EN 932-1:1997	S
	Methods of reducing laboratory samples - using a riffle box - reduction by quartering - to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	A,D
	Particle size distribution - washing and sieving	BS 812-103:Section 103.1:1985	A
	Particle size distribution - dry sieving	BS 812-103:Section 103.1:1985	A
	Moisture content - oven drying method	BS 812-109:1990	A,D
	Particle size distribution - sieving method	BS EN 933-1:2012	A,D
	Flakiness index	BS EN 933-3:2012	A
	Shape index	BS EN 933-4:2008	A
	Percentage of crushed and broken surfaces in coarse aggregate particles	BS EN 933-5: 1998	A
	Constituents of coarse recycled aggregate - Test for geometrical properties of aggregates.	BS EN 933-11:2009	A,D



0927

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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)	Micro-Deval coefficient	BS EN 1097-1:2011	A
	Resistance to fragmentation of coarse aggregate - Los Angeles method	BS EN 1097-2:2010	A,
	Resistance to fragmentation of aggregates for railway ballast by the Los Angeles test method	BS EN 1097-2:2010	A
	Micro-Deval coefficient	BS EN 13450:2013 (BS EN 1097-1:2011)	A
	Resistance to fragmentation of coarse aggregate - modified Los Angeles method	BS EN 13450:2013 (BS EN 1097-2:2010)	A
	Loose bulk density and voids	BS EN 1097-3:1998	A
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	A,D
	Particle density and water absorption - wire basket method for aggregate particles between 31.5 and 63 mm	BS EN 1097-6:2013	A
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31.5 mm	BS EN 1097-6:2013	A
Particle density and water absorption - pyknometer method for aggregate particles between 0.063 mm and 4 mm	BS EN 1097-6:2013	A	



0927

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MIXTURES for roads and other paved areas	Sampling from - from around the augers of the paver - from workable material in heaps - coated chippings from stockpiles - finished material - core cutting method	BS EN 12697-27:2017	S
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2012	A,
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2012	A
	Particle size distribution	BS EN 12697-2:2015	A
	Maximum density - volumetric procedure	BS EN 12697-5:2018	A
	Bulk density - saturated surface dry (SSD)	BS EN 12697-6:2012	A
	Air voids content	BS EN 12697-8:2018	A
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	A
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	A
	Preparation of samples for the determining binder content, water content and grading	BS EN 12697-28:2001	A



0927

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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2002	A
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	A
	Determination of the thickness of a bituminous pavement	BS EN 12697-36 :2003	A
	Core Logging In-House Test Method B14	Documented In-House Test Method B14	A
	Air voids content	Specification for Highway Works HMSO August 2008 Clause 929	A
	Temperature measurement - laid material - in a heap	BS 12697-13:2017	S
	Compacted density - nuclear method	Documented In-House Method No STP NDM1	S



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CONCRETE – fresh	Sampling - composite sample - spot sample	BS EN 12350-1:2019	S
	Slump	BS EN 12350-2:2019	S
	Compaction Factor	BS1881-103:1993	D,S
	Degree of Compactability	BS EN 12350-4:2019	D,S
	Determination of Flow	BS EN 12350-5:2019	S
	Density	BS EN 12350-6: 2019	A,D,S
	Air Content -Pressure method	BS EN 12350-7:2019	A,D,S
	Slump Flow and T500	BS EN 12350-8:2019	S
	V-Funnel	BS EN 12350-9:2010	S
	L box	BS EN 12350-10:2010	S
	Sieve Segregation	BS EN 12350-11:2010	S
	J Ring	BS EN 12350-12:2010	S
	Making test cubes and curing	BS EN 12390-2:2019	A,D,H,S
	Making test cylinders and curing	BS EN 12390-2:2019	A,D,H
	Method for Making Test Beams from Fresh Concrete	BS EN 12390: Pt 2:2019 & BS EN 14651:2005 + A1:2007	A,D,S
	Fibre Content	BS EN 14488-7:2006	A
Static segregation of self consolidating concrete -column technique	ASTM C1610-17	S	
Bleeding of Concrete	ASTM C232-14	S	
CONCRETE - fresh reinforced	Fibre content -- Steel fibres	BS EN 14721:2005 + A1 2007	D, S



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CONCRETE – Sprayed	Fibre Content of Fibre Reinforced Concrete	DIHM B2	D, S
CONCRETE - hardened	Cored specimens - taking	BS EN 12504-1:2019	S
	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	A,D A,D,H
	Compressive strength of Cylinders - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	A,D A,D,H
	Compressive strength of resin concrete cubes - including Curing and Density	BS 6319-2:1983	D
	Curing of Test Beams	BS EN 12390-2:2019	D,H
	Cored Specimens - examining and testing in compression	BS EN 12504-1:2019	A,D
	Density	BS EN 12390-7:2019	A,D
	Flexural strength	BS EN 12390-5:2019	A,D
	Tensile splitting strength	BS EN 12390-6:2009	A
	Fibre Content	BS EN 14488-7:2006	A,D
	Coring	Documented In-House Method STP C0a & b	S
	Sampling of concrete by drilling	Documented In-House Method STP C0c	S
	Carbonation	BS EN 14630: 2006	S
	Resistivity	Documented In-House Method No ID B04 Issue 2	S



0927

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CONCRETE - reinforced	Location of reinforcement	BS 1881-204:1988	S
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C 876 –15	S
PAVED SURFACES	Skid resistance value	BS 7976-2+A1:2013	A,S
ROAD AND AIRFIELD SURFACE CHARACTERISTICS	Slip/Skid resistance of a surface - The pendulum test	BS EN 13036-4:2011	A,S
ROAD MATERIALS - unbound and hydraulically bound mixtures	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A,D
	Moisture condition value	BS EN 13286-46:2003	A
ROAD PAVEMENT SURFACES	Texture depth - by the sand-patch method	BS 598-105:2000	S
	Surface regularity using a rolling straight-edge	Specification for Highway Works, HMSO November 2006 Clause 702	S
	Surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	S



0927

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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	Sampling site excavated material - from heaps	Documented In-House Method STP S0/Method 2 (a)	S
	Sampling imported granular material - from stockpiles - from heaps	Documented In-House Method STP S0/Method 4	S
	Moisture content - oven drying method	BS 1377-2:1990	A,B,D
	Saturation moisture content of chalk	BS 1377-2:1990	A
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	A,D
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A,B,D
	Plastic limit	BS 1377-2:1990	A,B,D
	Plasticity index and liquidity index	BS 1377-2:1990	A
	Plasticity index	BS 1377-2:1990	B,D
	Particle size distribution - wet sieving	BS 1377-2:1990	A,D
	Particle size distribution - dry sieving	BS 1377-2:1990	A,D
	Particle size distribution - sedimentation by hydrometer	BS 1377-2:1990	A
	Particle Density - gas jar method	BS 1377-2:1990	A
Bulk density - By Linear Measurement	BS 1377-2:1990 Clause 7.2	A	



0927

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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)	California Bearing Ratio (CBR)	BS 1377-4:1990	A
	Swelling of soaked CBR specimen	BS 1377-4:1990	A
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A,D
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	A,D
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	A,D
	MCV - natural moisture content	BS 1377-4:1990	A,D
	MCV/moisture content relation	BS 1377-4:1990	A,D
	Chalk crushing value	BS 1377-4:1990	A
	Undrained shear strength in triaxial compression without measurement of pore pressure.	BS 1377-7 :1990 Clause 8	A
	Undrained shear strength of remoulded cohesive material	Specification for Highway Works, HMSO March 1998 Clause 633	A
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	S
	In-situ density - core cutter method	BS 1377-9:1990	S
In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	S	



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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)	Determination of the vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990	S
	Determination of the state of desiccation in clay soils	Building Research Establishment Information Paper IP4/93	B
	One dimensional swell / strain	Documented In-house Method – PAS 17A:2005	B
	Dynamic cone penetrometer	Documented In-House Method STP S9 based on manufactures operating instructions	S
	Calculation of equivalent CBR value using the plate bearing test	IAN 73/06 Rev 1 1990 & Draft HD25	S
END of Permanent Locations			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Site Laboratories – Flexible scope			
AGGREGATES	Sampling - from stockpiles	BS EN 932-1:1997	FLEX (Site)
	Methods of reducing laboratory samples - using a riffle box - reduction by quartering	BS EN 932-2:1999	FLEX (NCL)
	Methods of reducing laboratory samples - to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	FLEX (NCL)
	Particle size distribution - sieving method	BS EN 933-1:2012	FLEX (NCL)
	Flakiness index	BS EN 933-3:2012	FLEX (NCL)
	Shape index	BS EN 933-4:2008	FLEX (NCL)
	Assessment of fines. Methylene blue test	BS EN 933-9:1999	FLEX (NCL)
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	FLEX (NCL)
BITUMINOUS MIXTURES for roads and other paved areas	Sampling from - around the augers of the paver	BS EN 12697-27:2017	FLEX (Site)
	Sampling from workable material in heaps	BS EN 12697-27:2017	FLEX (Site)
	Sampling coated chippings from stockpiles	BS EN 12697-27:2017	FLEX (Site)



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Preparation of samples for the determining binder content, water content and grading	BS EN 12697-28:2001	FLEX (NCL)
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2012	FLEX (NCL)
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2012	FLEX (NCL)
	Particle size distribution	BS EN 12697-2:2015	FLEX (NCL)
	Maximum density - volumetric procedure	BS EN 12697-5:2018	FLEX (NCL)
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen - by dimensions	BS EN 12697-6:2012	FLEX (NCL)
	Air voids content	BS EN 12697-8:2018	FLEX (NCL)
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	FLEX (NCL)
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	FLEX (NCL)
	Temperature measurement - in a lorry - laid material - in a heap	BS 12697-13:2017	FLEX (Site)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2002	FLEX (NCL)
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	FLEX (NCL)
	Compacted density - nuclear method	Documented In-House Method No STP NDM1	FLEX (Site)
CONCRETE - fresh	Sampling - composite sample - spot sample	BS EN 12350-1:2019	FLEX (Site)
	Sampling of fresh concrete	BS EN 14488-1:2005	FLEX (Site)
	Making test cubes and curing	BS EN 12390-2:2019	FLEX (Site)
	Manufacture and initial curing of beams/prisms	BSEN 12390-2:2019 BS EN 14651:2007 + A1	FLEX (Site)
	Manufacture and initial curing of concrete cylinders	BS EN 12390-2:2019	FLEX (Site)
	Slump	BS EN 12350-2:2019	FLEX (Site)
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-3:2019 BS EN 12390-2:2019	FLEX (NCL)
	Density	BS EN 12390-7:2019	FLEX (NCL)
	Tensile splitting strength	BS EN 12390-6:2009	FLEX (Site)



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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)	Cored Specimens - examining and testing in compression	BS EN 12504-1:2019	FLEX (NCL)
	Fibre content of fibre reinforced concrete	BS EN 14488-7:2006	FLEX (NCL)
ROAD MATERIALS - unbound and hydraulically bound mixtures	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	FLEX (NCL)
	Moisture condition value	BS EN 13286-46:2003	FLEX (NCL)
SOILS for civil engineering purposes	Sampling site excavated material - from heaps	Documented In-House Method STP S0/Method 2 (a)	Z
	Sampling imported granular material - from stockpiles - from heaps	Documented In-House Method STP S0/Method 4	Z
	Moisture content - oven drying method	BS 1377-2:1990	Z
	Saturation moisture content of chalk	BS 1377-2:1990	FLEX (NCL)
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	Z
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	Z



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SOILS for civil engineering purposes (cont'd)	Liquid limit - casagrande apparatus method	BS 1377-2:1990	Z
	Plastic limit	BS 1377-2:1990	Z
	Plasticity index and liquidity index	BS 1377-2:1990	FLEX (NCL)
	Plasticity index	BS 1377-2:1990	Z
	Particle size distribution - wet sieving	BS 1377-2:1990	Z
	Particle size distribution - dry sieving	BS 1377-2:1990	Z
	Particle size distribution - sedimentation by hydrometer	BS 1377-2:1990	FLEX (NCL)
	Particle Density - gas jar method	BS 1377-2:1990	Z
	California Bearing Ratio (CBR)	BS 1377-4:1990	FLEX (NCL)
	Swelling of soaked CBR specimen	BS 1377-4:1990	FLEX (NCL)
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Z
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	FLEX (NCL)
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	FLEX (NCL)
	MCV - natural moisture content	BS 1377-4:1990	Z
MCV/moisture content relation	BS 1377-4:1990	Z	



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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)	Chalk crushing value	BS 1377-4:1990	FLEX (NCL)
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	Z
	Dynamic cone penetrometer	Documented In-House Method STP S9 based on manufactures operating instructions	FLEX (Site)
	Determination of the vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990	Z
	Calculation of equivalent CBR value using the plate bearing test	IAN 73/06 Rev 1 1990 & Draft	Z
END of Flexible scope			