


Schedule of Accreditation

Issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	CET Safehouse Limited	
	Issue No: 041 Issue date: 23 April 2012	
	Materials Testing Division Northdown House Ashford Road Harrietsham Kent ME17 1QW	Contact: Mr John Wilson Tel: +44 (0)1622 858545 Fax: +44 (0)1622 858544 E-Mail: john.wilson@cetsafehouse.com Website: www.cetsafehouse.com
Testing performed by the Organisation at the locations specified below		

CET Safehouse Limited 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 noted as FLEX in the location code column (together with the relevant current flexible scope site laboratory location code(s) in brackets) Note: NCL = No current location

Current locations covered by the scope of accreditation:

Location details	Activity	Location code
Address Materials Testing Division Northdown House Ashford Road Harrietsham Kent ME17 1QW	Contact: Mr John Wilson / Mr Jon Champion Tel: +44 (0)1622 858545 Fax: +44 (0)1622 858544 EMail: john.wilson@cetsafehouse.com jon.champion @ cetsafehouse.com	Aggregates Bituminous materials Concrete - fresh Concrete - hardened Soils A
Address Materials Testing Division Highway House 6 Lutterworth Road Wolvey Nr Hinckley Leicestershire LE10 3HW	Contact: Mr John Wilson / Mr Ahmad Iravani Tel: +44 (0) 1455 220784 Fax: +44 (0) 1455 221096 Email: john.wilson@cetsafehouse.com ahmad.iravani@cetsafehouse.com	CONSTRUCTION Aggregates Bituminous materials Concrete - fresh Concrete - hardened Soils C
Address Materials Testing & Inspection 57 Carron Place Kelvin Industrial Estate East Kilbride Glasgow Scotland G75 0YL	Local contact: Mr John Wilson / Mr Alexander Hodge Tel: +44 (0)1355 574732 Fax: +44(0)1355 571555 Email: john.wilson@cetsafehouse.com sandy.hodge@cetsafehouse.com	CONSTRUCTION Aggregates Bituminous materials Concrete - fresh Concrete - hardened Soils D



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Address CET M1 Site Laboratory Costain Carillion Joint Venture, M1 Junction 10-13 Improvement Scheme, Project Office, Toddington, Dunstable, LU5 6HP	Local Contact: Mr John Wilson Tel: +44 (0)1622 858545 Fax: +44 (0)1622 858544 Email: john.wilson@cetsafehouse.com	CONSTRUCTION Soils	E
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Site activities performed away from the locations listed above:

Location details	Activity	Location code
All locations suitable for the activities listed	Contact: Mr John Wilson Aggregates Bituminous materials Concrete - fresh Concrete structures & reinforcement Concrete - hardened Piling Road pavement surfaces Soils	B



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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
AGGREGATES	Sampling coarse, fine and all-in aggregates - from heaps	BS 812-102:1989	B
	Particle size distribution - washing and sieving	BS 812-103:Section 103.1:1985	A, C
	Particle size distribution - dry sieving	BS 812-103:Section 103.1:1985	A, C
	Flakiness index	BS 812-105:Section 105.1:1989	A, C
	Elongation index	BS 812-105:Section 105.2:1990	A, C
	Moisture content - oven drying method	BS 812-109:1990	A, C
	Ten per cent fines value - dry - particle size 10mm and greater (loads from 10 to 2000 kN)	BS 812-111:1990	A, C
	Ten per cent fines value - soaked - particle size 10mm and greater (loads from 10 to 2000 kN)	BS 812-111:1990	A,C
	Sampling - from stockpiles	BS EN 932-1:1997	FLEX (NCL) B
	Particle size distribution - sieving method	BS EN 933-1:1997	FLEX (NCL) A, C, D
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	FLEX (NCL) A, C, D	
Flakiness index	BS EN 933-3:1997	FLEX (NCL) A	



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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)	Shape index	BS EN 933-4:2000	FLEX (NCL) A
	Constituents of coarse recycled aggregate - Test for geometrical properties of aggregates.	BS EN 933-11:2009	A, 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
	Water content - drying in a ventilated oven	BS EN 1097-5:2008	FLEX (NCL) A, C, D
	Resistance to fragmentation of coarse aggregate - modified Los Angeles method	BS EN 1097-2:2010 and BS EN 13450:2002 Annex C	A
	Micro-Deval coefficient	BS EN 13450:2002 Annex E	A
	Micro-Deval Attrition	AFNOR P18-572:1990	A
	Los Angeles test	AFNOR P18-573:December 1990	A
	Resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C 131-03	A
	Resistance to degradation of large-size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C 535-03	A
Constituent materials in recycled aggregates and recycled concrete aggregate	Specification for Highway Works HMSO November 2004 Clause 710	FLEX (NCL) A	



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AGGREGATES (cont'd)	Loose bulk density and voids	BS EN 1097-3:1998	A
	Particle density and water absorption - wire basket method for aggregate particles between 31.5 and 63 mm	BS EN 1097-6:2000	A C,D
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31.5 mm	BS EN 1097-6:2000	A C,D
	Particle density and water absorption - pyknometer method for aggregate particles between 0.063 mm and 4 mm	BS EN 1097-6:2000	A C,D
	Magnesium sulphate test	BS EN 1367-2:2009	A
BITUMINOUS MATERIALS	Needle penetration - 25 °C	BS 2000-49:2007	C
	Needle penetration - 25 °C	BS EN 1426:2007	C
	Softening point - ring and ball method	BS EN 1427:2007	C
	Softening point - ring and ball method	BS 2000-58:2007	C
BITUMINOUS MIXTURES for roads and other paved areas	Sampling from - around the augers of the paver	BS EN 12697-27:2001	FLEX (NCL) B
	Sampling from workable material in heaps	BS EN 12697-27:2001	FLEX (NCL) B
	Sampling coated chippings from stockpiles	BS EN 12697-27:2001	FLEX (NCL) B,
	Sampling of finished material - core cutting method	BS EN 12697-27:2001	B



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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)	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2005	FLEX (NCL) A, C, D
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2005	FLEX (NCL) A, C, D
	Particle size distribution	BS EN 12697-2:2002	FLEX (NCL) A, C, D
	Bitumen recovery: rotary evaporator	BS EN 12697-3:2005	C
	Maximum density - volumetric procedure	BS EN 12697-5:2009	FLEX (NCL) A, C, D
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen - by dimensions	BS EN 12697-6:2003	FLEX (NCL) A, C, D
	Air voids content	BS EN 12697-8:2003	FLEX (NCL) A, C, D
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	FLEX (NCL) A, C, D
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	FLEX (NCL) A, C, D
	Temperature measurement - in a lorry - laid material - in a heap	BS 12697-13:2000	FLEX (NCL) B
Sampling from - around the augers of the paver	BS EN 12697-27:2001	B	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Sampling from workable material in heaps	BS EN 12697-27:2001	B
	Sampling coated chippings from stockpiles	BS EN 12697-27:2001	B
	Preparation of samples for the determining binder content, water content and grading	BS EN 12697-28:2001	FLEX (NCL) A, B, C, D
	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2002	FLEX (NCL) A, C
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	FLEX (NCL) A, C, D
	Hot sand test for the adhesivity of binder on precoated chippings for HRA	BS EN 12697-37:2003	D
	Hot sand test	BS 598-108:2005	D
	Indirect tensile stiffness modulus of bituminous mixtures	DD 213:1993	C
	Resistance to permanent deformation of bituminous mixtures subject to unconfined dynamic loading	DD 226:1996	C
	Repeated load axial test with vacuum confinement	DD 226/TRL paper PA 3287/97	C
Air voids content	Specification for Highway Works HMSO August 2008 Clause 929	A C	
Compacted density - nuclear method	Documented In-House Method No STP NDM1	FLEX (NCL) B	



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CONCRETE - fresh	Slump	BS 1881-102:1983	B
	Sampling fresh concrete on site	BS 1881-101:1983	B
	Sampling from initial discharge (slump test)	BS 1881-102:1983	B
	Sampling - composite sample - spot sample	BS EN 12350-1:2009	FLEX (NCL) B
	Slump	BS EN 12350-2:2009	FLEX (NCL) B
	Determination of flow	BS EN 12350-5:2009	B
	Air content - Pressure method	BS EN 12350-7:2009	B
	Making test cubes and curing	BS EN 12390-2:2009	FLEX (NCL) A, B, C & D
CONCRETE - hardened	Compressive strength of cubes (loads from 10 to 2000 kN)	BS 1881-116:1983 BS EN 12390-3:2009	A, C FLEX (NCL) A, C, D
	- including curing	BS 1881-111:1983 BS EN 12390-2:2009	A,C FLEX (NCL) A C D
	Compressive strength of cores (loads from 10 to 2000 kN)	BS 1881-120:1983	C,D
	Cored specimens - taking	BS EN 12504-1:2009	B
	Cored Specimens - examining and testing in compression (loads from 10 to 2000 kN)	BS EN 12504-1:2009	A, C, D



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CONCRETE - hardened (cont'd)	Density	BS 1881-114:1983 BS EN 12390-7:2009	A, C FLEX (NCL) A, C, D
	Carbonation	BRE Information Paper IP 6/81	B
	Resistivity	Documented In-House Method No ID B04 Issue 2	B
	Coring	Documented In-House Method STP C0a:1995	B
	Coring	Documented In-House Method STP C0b:1995	B
	Sampling of concrete by drilling	Documented In-House Method STP C0c:1997	B
CONCRETE - reinforced	Location of reinforcement	BS 1881-204:1988	B
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C 876 - 91	B
PAVED SURFACES	Skid resistance value	BS 7976-2:2002	B
PILED FOUNDATIONS	Low strain/sonic integrity testing	Documented In-House Method ID P1:1995	B
ROAD AND AIRFIELD SURFACE CHARACTERISTICS	Slip/Skid resistance of a surface - The pendulum test	BS EN 13036-4:2003	B
ROAD MATERIALS - unbound and hydraulically bound mixtures	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	FLEX (NCL) A, C, D
	Moisture condition value	BS EN 13286-46:2003	FLEX (NCL) A, C, D



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ROAD MATERIALS - unbound and hydraulically bound mixtures (cont'd)	Laboratory reference density and water content - Proctor compaction using alternative apparatus - Proctor test for mixtures compacted with a 2.5 kg rammer in the proctor mould - Modified proctor test for mixtures compacted with a 4.5 kg rammer in the proctor mould	BS EN 13286-2:2010	FLEX (NCL) A, C, D
ROAD PAVEMENT SURFACES	Texture depth - by the sand-patch method Surface regularity using a rolling straight-edge Surface macrotexture depth using a volumetric patch technique	BS 598-105:2000 Specification for Highway Works, HMSO November 2006 Clause 702 BS EN 13036-1:2010	FLEX (NCL) B FLEX (NCL) B FLEX (NCL) B
SOILS for civil engineering purposes	Moisture content - oven drying method Saturation moisture content of chalk Liquid limit - cone penetrometer (definitive method) Liquid limit - cone penetrometer - one point Plastic limit Plasticity index and liquidity index	BS 1377-2:1990 BS 1377-2:1990 BS 1377-2:1990 BS 1377-2:1990 BS 1377-2:1990 BS 1377-2:1990	FLEX (E) A, C, D FLEX (NCL) A FLEX (NCL) A, C, D FLEX (NCL) A, C, D FLEX (NCL) A, C, D FLEX (NCL) A, C



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SOILS for civil engineering purposes (cont'd)	Plasticity index	BS 1377-2:1990	D
	Particle size distribution - wet sieving	BS 1377-2:1990	FLEX (NCL) A, C, D
	Particle size distribution - dry sieving	BS 1377-2:1990	FLEX (NCL) A, C
	Particle size distribution - sedimentation by hydrometer	BS 1377-2:1990	FLEX (NCL) A
	Particle Density - gas jar method	BS 1377-2:1990	FLEX (NCL) A, C
	California Bearing Ratio (CBR) (loads from 0.2 to 50 kN) - A (loads from 0.2 to 28 kN) - C (loads from 0.2 to 50 kN) - D	BS 1377-4:1990	FLEX (NCL) A, C, D
	Swelling of soaked CBR specimen	BS 1377-4:1990	A, C, D
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	FLEX (NCL) A, C, D
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	FLEX (NCL) A, C, D
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	FLEX (NCL) A, C, D
	MCV - natural moisture content	BS 1377-4:1990	FLEX (NCL) A, B, C, D
	MCV/moisture content relation	BS 1377-4:1990	FLEX (NCL) A, C, D
Chalk crushing value	BS 1377-4:1990	FLEX (NCL) A	



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SOILS for civil engineering purposes (cont'd)	Shear strength - large shearbox <i>(loads from 5 to 50 kN)</i>	BS 1377-7:1990	C
	In-situ density - sand replacement method <i>(large pouring cylinder)</i>	BS 1377-9:1990	FLEX (NCL) B
	In-situ density - core cutter method	BS 1377-9:1990	FLEX (NCL) B
	In-situ California Bearing Ratio (CBR) <i>(loads from 0.2 to 50 kN)</i>	BS 1377-9:1990	B
	Sampling site excavated material - from heaps	Documented In-House Method STP S0/Method 2 (a)	FLEX (NCL) B
	Sampling imported granular material - from stockpiles - from heaps	Documented In-House Method STP S0/Method 4	FLEX (NCL) B
	In-situ density of soil and fill materials	Documented In-House Method STP NDM-S based on BS 1377-9:1990 using nuclear density gauge	FLEX (NCL) B
	Dynamic cone penetrometer	Documented In-House Method STP S9 based on manufactures operating instructions	FLEX (NCL) B
	Determination of the vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990	B
Calculation of equivalent CBR value using the plate bearing test	Design Manual for Roads and Bridges: Volume 7: pavement Design and maintenance - Foundation HD 25/94	B	

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