

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0494</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>Celtest Ltd</p> <p>Issue No: 048 Issue date: 23 August 2017</p>	
	<p>Trefelin Llandegai Bangor Gwynedd LL57 4LH</p>	<p>Contact: Mr G Jones/Mr E Goulden Tel: +44 (0)1248 355269 Fax: +44 (0)1248 351563 E-Mail: postmaster@celtest.com Website: www.celtest.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Celtest Ltd is accredited for a flexible scope that enables it to establish site laboratories to conduct the construction materials testing and sampling activities that are indicated in the table below with the location code X. These site laboratories are set up in accordance with the Documented In-House Procedure QP 4.4.3.

Locations covered by the Organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Trefelin Llandegai Bangor Gwynedd LL57 4LH</p> <p>Local contact Mr G Jones/Mr E Goulden</p>	Laboratory testing	A
<p>Address % Northstone Whitemountain JV Compound Access via Crash Gate 2 RAF Valley Holyhead Anglesey LL65 3NY</p> <p>Contact Mr N Wager</p>	Laboratory testing	V

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>All locations suitable for the activities listed</p> <p>Local contact Mr G Jones/Mr E Goulden</p>	Site sampling and testing	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	Aggregate crushing value - particle size 10 mm and greater	BS 812-110:1990	A
	Aggregate crushing value - particle size smaller than 10 mm	BS 812-110:1990	A
	Ten per cent fines value - dry - particle size 10 mm and greater	BS 812-111:1990	A
	Ten per cent fines value - soaked - particle size 10 mm and greater	BS 812-111:1990	A
	Ten per cent fines value - dry - particle size smaller than 10 mm	BS 812-111:1990	A
	Ten per cent fines value - soaked - particle size smaller than 10 mm	BS 812-111:1990	A
	Aggregate impact value - dry	BS 812-112:1990	A
	Aggregate impact value - soaked	BS 812-112:1990	A
	Acid-soluble material content	BS 812-119:1985	A
	Frost-heave	BS 812-124:2009	A
	Carbon dioxide content (reference method)	BS EN 196-2:2013	A
	Carbon dioxide content (alternative method)	BS EN 196-2:2013	A
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	B
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	B



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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)	Sample reduction using a riffle box	BS EN 932-2:1999	A
	Sample reduction by quartering	BS EN 932-2:1999	A
	Sample reduction to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	A
	Sample reduction with crushing to reduce the particle size	BS EN 932-2:1999	A
	Particle size distribution - sieving method	BS EN 933-1:2012	A, V, X
	Flakiness index	BS EN 933-3:2012	A, V, X
	Shape index	BS EN 933-4:2008	A
	Percentage of crushed and broken surfaces in coarse aggregate particles	BS EN 933-5:1998	A
	Shell content	BS EN 933-7:1998	A
	Assessment of fines - sand equivalent test	BS EN 933-8:2012	A
	Assessment of fines - methylene blue test	BS EN 933-9:2009 + A1:2013	A
	Assessment of fines - grading of fillers (air-jet sieving)	BS EN 933-10:2009	A
	Constituents of coarse recycled aggregate	BS EN 933-11:2009	A
	Micro-Deval coefficient	BS EN 1097-1:2011	A
Micro-Deval coefficient of railway ballast	BS EN 1097-1:2011 Annex A	A	
Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2010	A	



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AGGREGATES (cont'd)	Resistance to fragmentation of aggregates for railway ballast by the Los Angeles test method	BS EN 1097-2:2010 Annex A	A
	Loose bulk density and voids	BS EN 1097-3:1998	A
	Apparent (bulk) density of filler in kerosene	BS EN 1097-3:1998	A
	Water content	BS EN 1097-5:2008	A, V, X
	Particle density and water absorption - wire-basket method for aggregate particles between 31,5 mm 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
	Particle density of filler - pyknometer method	BS EN 1097-7:2008	A
	Polished stone value	BS EN 1097-8:2009	A
	Aggregate abrasion value	BS EN 1097-8:2009	A
	Resistance to freezing and thawing	BS EN 1367-1:2007	A
	Magnesium sulfate test	BS EN 1367-2:2009	A
	Drying shrinkage	BS EN 1367-4:2008	A
Water-soluble chloride salts using the Volhard method (reference method)	BS EN 1744-1:2009 + A1:2012	A	



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AGGREGATES (cont'd)	Water-soluble sulfates in natural and manufactured aggregates	BS EN 1744-1:2009 + A1:2012	A
	Total sulfur content by acid digestion (reference method)	BS EN 1744-1:2009 + A1:2012	A
	Acid soluble sulfates	BS EN 1744-1:2009 + A1:2012	A
	Acid soluble sulfides	BS EN 1744-1:2009 + A1:2012	A
	Lightweight contaminators	BS EN 1744-1:2009 + A1:2012	A
	Potential presence of humus	BS EN 1744-1:2009 + A1:2012	A
	Fulvo acid content	BS EN 1744-1:2009 + A1:2012	A
	Water solubility of aggregate, excluding filler	BS EN 1744-1:2009 + A1:2012	A
	Water solubility of filler	BS EN 1744-1:2009 + A1:2012	A
	Potential alkali reactivity of aggregates (mortar-bar method)	ASTM C 1260-07	A
	Magnesium sulfate test	Defence Estates Specifications: 12 Appendix A : July 2010 13 Appendix B : August 2009 49 Appendix A : August 2009	A
Magnesium sulfate test	Defence Infrastructure Organisation Specifications: 12 Appendix A : March 2015 13 Appendix A : March 2015 49 Appendix A : March 2015	A	
BITUMINOUS MATERIALS	Needle penetration - 25 °C	BS EN 1426:2015	A
	Softening point - ring and ball method	BS EN 1427:2015	A
	Bitumen recovery: rotary evaporator	BS EN 12697-3:2013	A



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BITUMINOUS MIXTURES for roads and other paved areas	Wheel-tracking rate	BS 598-110:1998	A
	Protocol for determining the design binder content of designed HRA surface course mixtures	BS 594987:2015 Annex H	A
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2012	A, V, X
	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, V, X
	Maximum density - volumetric procedure	BS EN 12697-5:2009	A, V, X
	Bulk density - dry	BS EN 12697-6:2012	A, V, X
	Bulk density - saturated surface dry (SSD)	BS EN 12697-6:2012	A, V, X
	Bulk density - sealed specimen - by dimensions	BS EN 12697-6:2012	A
	Air voids content (V_m)	BS EN 12697-8:2003	A, V, X
	Percentage of the voids in the mineral aggregate filled with binder (VFB)	BS EN 12697-8:2003 Defence Estates Specification 13 : August 2009 Defence Infrastructure Organisation Specification 13 : March 2015	A, V, X
Voids content in the mineral aggregate (VMA)	BS EN 12697-8:2003 Defence Estates Specification 13 : August 2009 Defence Infrastructure Organisation Specification 13 : March 2015	A	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002 (withdrawn)	A
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002 (withdrawn)	A, V, X
	Affinity between aggregate and bitumen - rolling bottle method - static method	BS EN 12697-11:2012	A
	Sensitivity to water - method A	BS EN 12697-12:2008	A
	Measurements of temperature - in a lorry - of laid materials - in a heap	BS EN 12697-13:2000	B
	Particle loss of porous asphalt specimen	BS EN 12697-17:2004	A
	Binder drainage - Schellenberg method	BS EN 12697-18:2004	A
	Permeability of bituminous specimen - vertical permeability - horizontal permeability	BS EN 12697-19:2012	A
	Wheel tracking using a small size device and procedure A	BS EN 12697-22:2003	A
	Wheel tracking using a small size device and procedure B in air	BS EN 12697-22:2003	A
	Indirect tensile strength	BS EN 12697-23:2003	A
Stiffness - test applying indirect tension to cylindrical specimens (IT-CY)	BS EN 12697-26:2004 Annex C	A	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Sampling - from the material around the augers of the paver - of workable material in heaps - of laid and compacted materials by coring	BS EN 12697-27:2001	B
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2001	A, B
	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2002	A
	Specimen preparation by impact compactor with wooden pedestal	BS EN 12697-30:2012 Defence Estates Specification 13 : August 2009 Defence Infrastructure Organisation Specification 13 : March 2015	A, V, X
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	A, V, X
	Specimen prepared by roller compactor	BS EN 12697-33:2003	A
	Marshall test	BS EN 12697-34:2012 Defence Estates Specification 13 : August 2009 Defence Infrastructure Organisation Specification 13 : March 2015	A, V, X
	Laboratory mixing	BS EN 12697-35:2004	A
	Thickness of a bituminous pavement - destructive method	BS EN 12697-36:2003	A, V, X
	Hot sand test for the adhesivity of binder on precoated chippings for HRA	BS EN 12697-37:2003	A
In-situ drainability	BS EN 12697-40:2012	B	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Amount of coarse foreign matter in reclaimed asphalt	BS EN 12697-42:2012	A
	Sampling of finished material - core cutting method	Specification for Highway Works, August 2008 Clause 929	B
	Asphalt mix design	Defence Estates Specifications: 12 Clauses 4, 5 & 6 : July 2010 13 Appendix A : August 2009	A
	Asphalt mix design	Defence Infrastructure Organisation Specifications: 12 Clauses 4, 5 & 8 : March 2015 13 Appendix A : March 2015	A
	Sensitivity to water	BBA SG3 Guideline Document Appendix A.2 : June 2013	A
	Torque bond test	BBA SG3 Guideline Document Appendix A.3 : June 2013	A
	Sensitivity to diesel (or other fluid)	BBA SG3 Guideline Document Appendix A.5 : March 2011 (withdrawn)	A
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No MS-G-ST-06	B
	In-situ density - dielectric method	Documented In-House Method No MS-G-ST-07	B
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2009	B
	Slump	BS EN 12350-2:2009	B
	Degree of compactability	BS EN 12350-4:2009	B
	Air content - water column method	BS EN 12350-7:2009	B
	Making cubic specimens for strength tests	BS EN 12390-2:2009	A, B



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CONCRETE - fresh (cont'd)	Curing cubic specimens for strength tests	BS EN 12390-2:2009	A, B
CONCRETE - hardened	Chloride content	BS 1881-124:2015	A
	Depth of carbonation	BS 1881-201:1986 BRE IP 6/81	B
	Resistivity	BS 1881-201:1986	B
	Compressive strength of cubes - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	A
	Compressive strength of cylinders - including curing	BS EN 12390-3:2009 BS EN 12390-2:2009	A
	Tensile splitting strength	BS EN 12390-6:2009	A
	Density	BS EN 12390-7:2009	A
	Depth of penetration of water under pressure	BS EN 12390-8:2009	A
	Stabilized secant modulus of elasticity	BS EN 12390-13:2013 Method B	A
	Taking cores	BS EN 12504-1:2009	B
	Cored specimens - examining	BS EN 12504-1:2009	A
	Cored specimens - testing in compression	BS EN 12504-1:2009	A
	Drilling for dust samples	Concrete Society Technical Report 60 CBDG Technical Guide 2 Documented In-House Method No MS-G-ST-16	B
CONCRETE - reinforced	Chloride content - potentiometric method	Documented In-House Method No CC38b, CC38c	A
	Location of reinforcement	BS 1881-204:1988	B
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C 876-09	B



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CONCRETE - reinforced (cont'd)	Visual and hammer survey	Documented In-House Method No MS-G-ST-32	B
FILLER AGGREGATE used in bituminous mixtures	Delta ring and ball	BS EN 13179-1:2013 Documented In-House Method No TMP 019	A
GEOSYNTHETICS	Coefficient of soil and geosynthetic friction by the direct shear method	ASTM D 5321-14	A
	Coefficient of geosynthetic and geosynthetic friction by the direct shear method	ASTM D 5321-14	A
MEDIA for BIOLOGICAL PERCOLATING FILTERS	Soundness	BS 1438:2004	A
PAVED SURFACES	Texture depth by the sand-patch method	BS 598-105:2000	B
	Irregularities on surfaces of roads, footways and other paved areas using a type 1 straightedge with fixed support feet and wedge A	BS 8420:2003	B, X
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	B
	Slip/skid resistance of a surface - the pendulum test	BS EN 13036-4:2011	B
	Irregularity measurement of pavement courses - the straightedge test	BS EN 13036-7:2003 Defence Estates Specifications: 12 Appendix B : July 2010 13 Appendix C : August 2009 40 Appendix B : August 2009 49 Appendix B : August 2009 Defence Infrastructure Organisation Specifications: 12 Appendix C : March 2015 13 Appendix D : March 2015 40 Appendix D : March 2015 49 Appendix C : March 2015	B



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PAVED SURFACES (cont'd)	Surface regularity using a rolling straight-edge	Specification for Highway Works, February 2016 Clause 702	B
	Concrete surface regularity	Defence Estates Specification 33 Appendix B : April 2005	B
	Skid resistance value	TRRL Road Note 27/69	B
SALT for spreading on highways for winter maintenance	Moisture content	BS 3247:2011	A
	Grading by sieve analysis	BS 3247:2011	A
	Matter insoluble in water	BS 3247:2011	A
	Chloride content	BS 3247:2011	A
	Soluble sulphate compounds	BS 3247:2011	A
	SLATE and STONE for discontinuous roofing and external cladding	Length and width and the deviation from the specified length and width	BS EN 12326-2:2011
Amount by which the edges deviate from a straight edge		BS EN 12326-2:2011	A
Rectangularity of slates		BS EN 12326-2:2011	A
Thickness of individual slates		BS EN 12326-2:2011	A
Deviation from flatness		BS EN 12326-2:2011	A
Modulus of rupture and characteristic modulus of rupture		BS EN 12326-2:2011	A
Water absorption		BS EN 12326-2:2011	A
Sulfur dioxide exposure for slates with a carbonate content less than or equal to 20 % (mass percentage)		BS EN 12326-2:2011	A
Thermal cycle		BS EN 12326-2:2011	A



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SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	A
	Liquid limit - cone penetrometer	BS 1377-2:1990	A
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A
	Plastic limit	BS 1377-2:1990	A
	Plasticity index	BS 1377-2:1990	A
	Particle density - gas jar	BS 1377-2:1990	A
	Particle density - small pycnometer	BS 1377-2:1990	A
	Particle size distribution - wet sieving	BS 1377-2:1990	A
	Particle size distribution - dry sieving	BS 1377-2:1990	A
	Particle size distribution - sedimentation - pipette method	BS 1377-2:1990	A
	Organic matter content	BS 1377-3:1990	A
	Sulphate content of soil and ground water - gravimetric method	BS 1377-3:1990	A
	pH value	BS 1377-3:1990	A
	Resistivity: open container method	BS 1377-3:1990	A
	Redox potential	BS 1377-3:1990	A
Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A	
Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	A	



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SOILS for civil engineering purposes (cont'd)	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	A
	Moisture condition value (MCV)	BS 1377-4:1990	A
	MCV - natural moisture content	BS 1377-4:1990	A, B
	MCV/moisture content relation	BS 1377-4:1990	A
	California Bearing Ratio (CBR)	BS 1377-4:1990	A
	Permeability in a triaxial cell	BS 1377-6:1990	A
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	A
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	B
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	B
	In-situ density - core cutter method	BS 1377-9:1990	B
	In-situ bulk density - nuclear method - comparative tests	BS 1377-9:1990	B
	In-situ bulk density - nuclear method - absolute tests	BS 1377-9:1990	B
	In-situ bulk density - nuclear method - compliance tests	BS 1377-9:1990	B
In-situ moisture density - nuclear method - comparative tests	BS 1377-9:1990	B	



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SOILS for civil engineering purposes (cont'd)	In-situ moisture density - nuclear method - absolute tests	BS 1377-9:1990	B
	In-situ moisture density - nuclear method - compliance tests	BS 1377-9:1990	B
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	B
	Carbonate content - volumetric method	BS EN ISO 10693:2014	A
	Determination of equivalent CBR value using the plate bearing test	Specification for Highway Works: Design Guidance for Road Pavement Foundations Interim Advice Note 73/06	B
	Determination of effective angle of internal friction and effective cohesion of earthworks materials (using 300 mm shearbox)	Specification for Highway Works, February 2016 Clause 636	A
	Uniformity coefficient	Specification for Highway Works, February 2016 Table 6/1, Footnote 5	A
	Determination of the permeability of clayey soils in a triaxial cell using the accelerated permeability test	Environment Agency R & D Technical Report P1-398/TR/2 : January 2003	A
	Horizontal permeability of road drainage layers using the permeability box	HA 41/90	A
	Determination of the methylene blue value of bentonite-containing soils	Documented In-House Method No SO71	A
Equivalent CBR value using a dynamic cone penetrometer (DCP)	Documented In-House Method No MS-G-ST-02 based on IAN 73/06 Revision 1 (2009)	B	



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GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil UNBOUND and HYDRAULICALLY BOUND MIXTURES	Water content	BS EN ISO 17892-1:2014	A
	Particle density - fluid pycnometer method	BS EN ISO 17892-3:2015	A
	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A
	Compressive strength of hydraulically bound mixtures	BS EN 13286-41:2003	A
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51:2004	A
Curing of hydraulically bound mixtures	BS EN 14227-1:2004 Annex C Regime A	A	
END			