

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0494</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>Celtest Ltd</p> <p>Issue No: 034 Issue date: 25 April 2012</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 IP7.5.9.

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 % Colas Asphalt Plant Main Runway Compound MA1 Contractors Compounds off Perimeter Road South Gatwick Airport West Sussex RH6 0HP</p> <p>Local contact Mr B Johnstone Tel: +44 (0)7899 693287</p>	Laboratory and site testing	G

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	Wet attrition value	BS 812:1951 (Revised August 1984)	A
	Aggregate crushing value - particle size 10 mm and greater <i>(loads from 10 to 2000 kN)</i>	BS 812-110:1990	A
	Aggregate crushing value - particle size smaller than 10 mm <i>(loads from 10 to 2000 kN)</i>	BS 812-110:1990	A
	Ten per cent fines value - dry - particle size 10 mm and greater <i>(loads from 10 to 2000 kN)</i>	BS 812-111:1990	A
	Ten per cent fines value - soaked - particle size 10 mm and greater <i>(loads from 10 to 2000 kN)</i>	BS 812-111:1990	A
	Ten per cent fines value - dry - particle size smaller than 10 mm <i>(loads from 10 to 2000 kN)</i>	BS 812-111:1990	A
	Ten per cent fines value - soaked - particle size smaller than 10 mm <i>(loads from 10 to 2000 kN)</i>	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 196-2:2005	A



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AGGREGATES	Carbon dioxide content (alternative method)	BS EN 196-2:2005	A
	Sampling aggregates - from stationary conveyor belts - from stockpiles - from lorries	BS EN 932-1:1997	B
	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
	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, G, X
	Flakiness index	BS EN 933-3:2012	A, G, 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	A	



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AGGREGATES	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
	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, G, X
	Particle density and water absorption - wire-basket method for aggregate particles between 31,5 mm and 63 mm	BS EN 1097-6:2000	A
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2000	A
	Particle density and water absorption - pyknometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2000	A
Particle density of filler - pyknometer method	BS EN 1097-7:2008	A	
Polished stone value	BS EN 1097-8:2009	A	



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AGGREGATES	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	A
	Water-soluble sulfates in natural and manufactured aggregates	BS EN 1744-1:2009	A
	Total sulfur content by acid digestion (reference method)	BS EN 1744-1:2009	A
	Acid soluble sulfates	BS EN 1744-1:2009	A
	Lightweight contaminators	BS EN 1744-1:2009	A
	Potential presence of humus	BS EN 1744-1:2009	A
	Fulvo acid content	BS EN 1744-1:2009	A
	Water solubility of aggregate, excluding filler	BS EN 1744-1:2009	A
	Water solubility of filler	BS EN 1744-1:2009	A
	Constituent materials in recycled aggregate and recycled concrete aggregate	Specification for Highway Works, HMSO November 2009 Clause 710	A
	Frost heave	Specification for Highway Works, HMSO November 2009 Clause 801	A
Magnesium sulfate test	Defence Works Functional Standard Hot Rolled Asphalt and Asphalt Concrete (Macadam) for Airfields Specification 012 Appendix A : July 2010	A	



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AGGREGATES	Magnesium sulfate test	Defence Works Functional Standard Marshall Asphalt for Airfields Specification 013 Appendix B : August 2009	A
	Magnesium sulfate test	Defence Works Functional Standard Stone Mastic Asphalt for Airfields Specification 049 Appendix A : August 2009	A
	Chloride ion concentration of the aqueous extract of natural aggregate	Documented In-House Method No AG15b using conductivity measurement following extraction in accordance with BS EN 1744-1:2009 Clause 9.5	A
BITUMINOUS MATERIALS	Recovery of bitumen binders by dichloromethane extraction rotary film evaporator method	BS 2000-397:1995	A
	Needle penetration - 25 °C	BS EN 1426:2007	A
	Softening point - ring and ball method	BS EN 1427:2007	A
	Bitumen recovery: rotary evaporator	BS EN 12697-3:2005	A
BITUMINOUS MIXTURES for roads and other paved areas	Temperature of bituminous mixtures - in a lorry - in the hopper of a paver - in laid-but-not-rolled material	BS 598-109:1990	B
	Wheel-tracking rate	BS 598-110:1998	A
	Protocol for determining the design binder content of designed HRA surface course mixtures (loads from 1 to 25 kN)	BS 594987:2010 Annex H	A
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2005	A, G, X



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BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2005	A
	Particle size distribution	BS EN 12697-2:2002	A, G, X
	Maximum density - volumetric procedure	BS EN 12697-5:2009	A, G, X
	Bulk density - dry - saturated surface dry (SSD)	BS EN 12697-6:2003	A, G, X
	Bulk density - sealed specimen - by dimensions	BS EN 12697-6:2003	A
	Air voids content (V_m)	BS EN 12697-8:2003	A, G, X
	Percentage of the voids in the mineral aggregate filled with binder (VFB)	BS EN 12697-8:2003 Defence Works Functional Standard Marshall Asphalt for Airfields Specification 013 : August 2009	A, G, X
	Void content in the mineral aggregate (VMA)	BS EN 12697-8:2003 Defence Works Functional Standard Marshall Asphalt for Airfields Specification 013 : August 2009	A
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	A
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	A, G, X
	Affinity between aggregate and bitumen - rolling bottle method	BS EN 12697-11:2005	A
Sensitivity to water - method A (loads from 1 to 25 kN)	BS EN 12697-12:2008	A	



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BITUMINOUS MIXTURES for roads and other paved areas	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
	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 (loads from 1 to 25 kN)	BS EN 12697-23:2003	A
	Stiffness - test applying indirect tension to cylindrical specimens (IT-CY) (loads from 0 to 10 kN)	BS EN 12697-26:2004 Annex C	A
	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 12697-30:2004 Defence Works Functional Standard Marshall Asphalt for Airfields Specification 013 : August 2009	A, G, X	



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BITUMINOUS MIXTURES for roads and other paved areas	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	A, G, X
	Specimen prepared by roller compactor	BS EN 12697-33:2003	A
	Marshall test (loads from 1 to 25 kN)	BS EN 12697-34:2004 Defence Works Functional Standard Marshall Asphalt for Airfields Specification 013 : August 2009	A, G, X
	Laboratory mixing	BS EN 12697-35:2004	A
	Thickness of a bituminous pavement - destructive method	BS EN 12697-36:2003	A, G, X
	Hot sand test for the adhesivity of binder on precoated chippings for HRA	BS EN 12697-37:2003	A
	Amount of coarse foreign matter in reclaimed asphalt	BS EN 12697-42:2005	A
	Resistance to permanent deformation - unconfined dynamic loading (RLAT) (loads from 0 to 10 kN)	BS DD 226:1996	A
	Resistance to permanent deformation - unconfined dynamic loading under vacuum (VRLAT) (loads from 0 to 10 kN)	BS DD 226:1996 modified in accordance with TRL PA 3287/97	A
	Sampling of finished material - core cutting method	Specification for Highway Works, HMSO November 2008 Clause 929	B
Asphalt mix design (loads from 1 to 25 kN)	Defence Works Functional Standard Hot Rolled Asphalt and Asphalt Concrete (Macadam) for Airfields Specification 012 : July 2010	A	



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BITUMINOUS MIXTURES for roads and other paved areas	Asphalt mix design (loads from 1 to 25 kN)	Defence Works Functional Standard Marshall Asphalt for Airfields Specification 013 Appendix A : August 2009	A
	Sensitivity to water (loads from 0 to 10 kN)	BBA SG3 Guideline Document Appendix A.2 : March 2011	A
	Torque bond test	BBA SG3 Guideline Document Appendix A.3 : March 2011	A
	Sensitivity to diesel (or other fluid) (loads from 0 to 10 kN)	BBA SG3 Guideline Document Appendix A.5 : March 2011	A
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No BM/NDM	B
	In-situ density - dielectric method	Documented In-House Method No BM/PQI	B
CEMENT	Loss on ignition	BS EN 196-2:2005	A
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
	Curing cubic specimens for strength tests	BS EN 12390-2:2009	A, B
	CONCRETE - hardened	Chloride content	BS 1881-124:1988
Depth of carbonation		BS 1881-201:1986 BRE IP 6/81	B
Resistivity		BS 1881-201:1986	B



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CONCRETE - hardened	Compressive strength of cubes - including curing (loads from 10 to 2000 kN)	BS EN 12390-3:2009 BS EN 12390-2:2009	A
	Density	BS EN 12390-7:2009	A
	Taking cores	BS EN 12504-1:2009	B
	Cored specimens - examining	BS EN 12504-1:2009	A
	Cored specimens - testing in compression (loads from 10 to 2000 kN)	BS EN 12504-1:2009	A
	Drilling for dust samples	Concrete Society Technical Report 60 CBDG Technical Guide 2	B
	Chloride content - potentiometric method	Documented In-House Method No CC38b, CC38c	A
CONCRETE - reinforced	Location of reinforcement	BS 1881-204:1988	B
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C 876-09	B
	Visual and hammer survey	Documented In-House Method No SURV01	B
FILLER AGGREGATE used in bituminous mixtures	Delta ring and ball	BS EN 13179-1:2000	A
GEOSYNTHETICS	Coefficient of soil and geosynthetic friction by the direct shear method (loads from 0.2 to 35 kN)	ASTM D 5321-08	A
	Coefficient of geosynthetic and geosynthetic friction by the direct shear method (loads from 0.2 to 35 kN)	ASTM D 5321-08	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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PAVED SURFACES	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, G, 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	B
	Surface regularity using a rolling straight-edge	Specification for Highway Works, HMSO November 2009 Clause 702	B
	Surface accuracy	Defence Works Functional Standard Marshall Asphalt for Airfields Specification 013 : August 2009	B
	Concrete surface regularity	Defence Works Functional Standard Pavement Quality Concrete for Airfields Specification 033 : April 2005	B
	Surface accuracy	Defence Works Functional Standard Stone Mastic Asphalt for Airfields Specification 049 : August 2009	B
ROOFING SLATES	Skid resistance value	TRRL Road Note 27/69	B
	Sulphuric acid immersion	BS 680-2:1971	A
	Water absorption	BS 680-2:1971	A
	Wetting and drying	BS 680-2:1971	A



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SLATE and STONE PRODUCTS for discontinuous roofing and cladding	Length and width and the deviation from the specified length and width	BS EN 12326-2:2011	A
	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 (loads from 0.2 to 250 kN)	BS EN 12326-2:2011	A
	Water absorption test	BS EN 12326-2:2011	A
	Sulfur dioxide exposure test for slates with a carbonate content less than or equal to 20 % (mass percentage)	BS EN 12326-2:2011	A
	Thermal cycle test	BS EN 12326-2:2011	A
	Carbonate content by the reference method for determination of carbon-dioxide specified in EN 196-21	BS EN 12326-2:2000	A
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 and liquidity index	BS 1377-2:1990	A



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SOILS for civil engineering purposes	Particle density - gas jar	BS 1377-2:1990	A
	Particle density - small pyknometer	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
	Sulphate content of soil and ground water - ion-exchange 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
	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	



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SOILS for civil engineering purposes	MCV/moisture content relation	BS 1377-4:1990	A
	California Bearing Ratio (CBR) <i>(loads from 0.2 to 30 kN)</i>	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 <i>(loads from 0.2 to 30 kN)</i>	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
	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



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SOILS for civil engineering purposes	Vertical deformation and strength characteristics by the incremental plate loading test <i>(loads from 0 to 300 kN)</i>	BS 1377-9:1990	B
	Uniformity coefficient (221 2217)	BS 6100-2.2.1:1992	A
	Carbonate content - volumetric method	BS 7755-3.10:1995	A
	Determination of equivalent CBR value using the plate bearing test <i>(loads from 0 to 300 kN)</i>	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) <i>(loads from 2 to 100 kN)</i>	Specification for Highway Works, HMSO November 2009 Clause 636	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
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A

END