

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0955</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Testconsult Limited</h3> <p>Issue No: 022 Issue date: 29 February 2012</p>	
	<p>Ruby House 40A Hardwick Grange Warrington WA1 4RF</p>	<p>Contact: Mr H T Williams Tel: +44 (0)1925-286880 Fax: +44 (0)1925 286881 E-Mail: jo@testconsult.co.uk Website: www.testconsult.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Ruby House 40A Hardwick Grange Warrington WA1 6RF</p> <p>Local contact Mr H T Williams Tel: +44 (0)1925-286880 Fax: +44 (0)1925 286881 E-Mail: huw@testconsult.co.uk</p>	<p>Aggregates: Mechanical Tests; Physical Tests Bituminous Mixtures: Physical Tests Concrete: Chemical Tests; Mechanical Tests; Physical Tests Soils: Mechanical Tests; Physical Tests</p>	A
<p>Address Bruton House Stadium Way Harlow Essex CM19 5FT</p> <p>Local contact Mr M Collyer Tel: +44 (0)1279 729029 Fax: +44 (0)1279 416879 E-mail: markc@testconsult.co.uk</p>	<p>Aggregates: Mechanical Tests; Physical Tests Bituminous Mixtures: Physical Tests Concrete: Mechanical Tests; Physical Tests Soils: Mechanical Tests; Physical Tests</p>	B
<p>Address Materials Laboratory Clonminam Industrial Estate Portlaoise Co Laoise Eire</p> <p>Local contact Mr M Robinson Tel: +00 353 5786 64885 Fax: +00 353 5786 64380 E-Mail: Michael@testconsult.ie</p>	<p>Aggregates: Mechanical Tests; Physical Tests Bituminous Mixtures: Physical Tests Concrete: Mechanical Tests; Physical Tests Soils: Mechanical Tests; Physical Tests</p>	E



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Address Ruby House 40A Hardwick Grange Warrington WA1 6RF</p> <p>Local contact Mr H T Williams Tel: +44 (0)1925-286880 Fax: +44 (0)1925 286881 E-Mail: huw@testconsult.co.uk</p>	<p>Bituminous Road Surfacing: Physical Tests Concrete: Sampling: Chemical Tests; Non-Destructive Tests Concrete Structures: Non-Destructive Tests Piled Foundations: Non-Destructive Tests Soils: Mechanical Tests; Physical Tests</p>	C
<p>Address Unit 3 Harold Close The Pinnacles Harlow Essex CM19 5TH</p> <p>Local contact Mr M Collyer Tel: +44 (0) 1279 729029 Fax: +44 (0) 1279 416879 E-mail: markc@testconsult.co.uk</p>	<p>Soils: Mechanical Tests; Physical Tests Concrete: Sampling</p>	D
<p>Address Materials Laboratory Clonminam Industrial Estate Portlaoise Co Laoise Eire</p> <p>Local contact Mr M Robinson Tel: +00 353 5786 64885 Fax: +00 353 5786 64380 E-Mail: Michael@testconsult.ie</p>	<p>Aggregates: Sampling Bituminous Road Surfacing: Sampling: Physical Tests Concrete: Sampling Piled Foundations: Non-Destructive Tests Soils: Sampling: Mechanical Tests; Physical Tests</p>	F



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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: Part 102:1989	F
	Aggregate crushing value - particle size 10mm and greater (loads from 50 to 2000 kN)	BS 812:Part 110:1990	A, B, E
	Ten per cent fines value - dry - particle size 10mm and greater (loads from 50 to 2000 kN)	BS 812:Part 111:1990	A, B, E
	Ten per cent fines value - soaked - particle size 10mm and greater (loads from 50 to 2000 kN)	BS 812:Part 111:1990	A, B, E
	Particle size distribution - washing and sieving	BS 812:Part 103, Section 103.1:1985	A, B, E
	Particle size distribution - dry sieving	BS 812:Part 103, Section 103.1:1985	A, B, E
	Flakiness index	BS 812:Part 105, Section 105.1:1989	A, B, E
	Moisture content - oven drying method	BS 812:Part 109:1990	A, B, E
	Uniformity coefficient (221 2217)	BS 6100:Subsection 2.2.1: 1992	A, B, E
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	F
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	F
	Particle size distribution - sieving method	BS EN 933-1:1997	A, B, E
	Flakiness index	BS EN 933-3:1997	B, E
Shape index	BS EN 933-4:2000	E	



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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)	Determination of the percentage crushed and broken surfaces in coarse aggregate particles	BS EN 933-5:1998	E
	Shell content	BS EN 933-7:1998	E
	Assessment of fines - methylene blue test	BS EN 933-9:1999	E
	Micro-Deval coefficient	BS EN 1097-1:1996	A, E
	Micro-Deval coefficient	BS EN 1097-1:1996 Modified in accordance with BS EN 13450:2002 Annex E	E
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:1998	A, E
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:1998 modified in accordance with BS EN 13450:2002 Annex C	A, E
	Water content	BS EN 1097-5:1999	A, E
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31.5 mm	BS EN 1097-6:2000	E
	Particle density and water absorption - pyknometer method for aggregate particles between 0.063 mm and 4 mm	BS EN 1097-6:2000	E
	Polished stone value	BS EN 1097-8:2000	E
	Aggregate abrasion value	BS EN 1097-8:2000	E
	Magnesium sulphate test	BS EN 1367-2:1998	E
Drying shrinkage	BS EN 1367-4:1998	E	



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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 - around the augers of the paver	BS 598:Part 100:2004	F
	Sampling of finished material - core cutting method	BS 598:Part 100:2004	F
	Binder content and grading of mineral aggregate - extraction bottle method: binder determination by difference	BS 598:Part 102:2003	A, E
	Percentage refusal density (PRD)	BS 598:Part 104:2005	A, E
	Temperature of bituminous mixtures - in the hopper of a paver - in laid-but-not-rolled material	BS 598:Part 109:1990	F
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2005	A
	Particle size distribution	BS EN 12697-2:2002	A
	Maximum density - volumetric procedure	BS EN 12697-5:2002	A, E
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2003	A
	Air voids content	BS EN 12697-8:2003	A
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	A
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	A
	Measurements of temperature - of laid materials - in a heap	BS EN 12697-13:2000	F



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Sampling from the material around the augers of the paver	BS EN 12697-27:2001	F
	Sampling from a lorry load of material	BS EN 12697-21:2001	F
	Determination of the dimensions of a bituminous specimen	BS EN 12697-29:2002	E
	Thickness of a bituminous pavement	BS EN 12697-36:200	E
	Binder content by ignition	BS EN 12697-39:2004	E
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	A
	Air voids	Specification for Highway Works, November 2004, Clause 929	A, E
CONCRETE - fresh	Making cubic specimens for strength tests	BS EN 12390-2:2000	C, D
	Sampling fresh concrete on site - composite sample	BS EN 12350-1:2009	C, D, F
	Sampling fresh concrete on site - spot sample	BS EN 12350-1:2009	C, D, F
	Slump	BS EN 12350-2:2009	C, D, F
	Slump	BS 1881-102:1983	D
CONCRETE - hardened	Making test cubes	BS 1881-108:1983	D
	Compressive strength of cubes - including curing (loads from 50 to 2000 kN)	BS 1881:Part 116:1983 BS 1881:Part 111:1983	A, B, E
	Density	BS 1881:Part 114:1983	A, B, E
	Compressive strength of cores (loads from 50 to 2000 kN)	BS 1881:Part 120:1983	A, B, E



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CONCRETE - hardened (cont'd)	Depth of carbonation	BS 1881:Part 201:1986	A
	Chloride content by potentiometric titration method	BS 1881:Part 124:1988	A
	Compressive strength of cubes - including curing (loads from 50 to 2000 kN)	BS EN 12390-3:2009 BS EN 12390-2:2009	A, B, E
	Density	BS EN 12390-7:2009	A, B, E
	Cored specimens - sampling	BS EN 12504-1:2000	C
	Cored specimens - examining and testing in compression (loads from 50 to 2000 kN)	BS EN 12504-1:2009	A, B, E
CONCRETE - reinforced	Location of reinforcement	BS 1881:Part 204:1988	C
CONCRETE STRUCTURES	Integrity	Documented In-House Method WI 8 issue 2 31/01/06 - sonic logging technique (ultra-sonic propagation time up to 1000 μ sec)	C
PILED FOUNDATIONS	Pile integrity	Documented In-House Method WI 31 issue 3 31/01/06 - transient dynamic response technique (frequency response: <= 5000 Hz mobility response: <= 100,000 etc <= 100,000 e ⁻⁹ m/sec/N)	C, F
ROAD PAVEMENT SURFACES	Texture depth - by the sand patch method	BS 598:Part 105:2000	F
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2002	F
	Skid resistance value	BS EN 13036-4:2003	F



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ROAD PAVEMENT SURFACES (cont'd)	Surface regularity using a rolling straight edge	TRRL Supplementary report 290:1977	F
	In-situ density - nuclear method	Documented In-house method WI No.37 8/6/2006	C, F
SOILS for civil engineering purposes	Sampling earthworks materials	Documented In-house method TIL-WI-MMR-002(01)	F
	Moisture content - oven drying method	BS 1377:Part 2:1990	A, B, E
	Saturation moisture content of chalk	BS 1377-2:1990	B
	Liquid limit - cone penetrometer - one point	BS 1377:Part 2:1990	A, B, E
	Liquid limit - cone penetrometer - definitive method	BS 1377:Part 2:1990	E
	Plastic limit	BS 1377:Part 2:1990	A, B, E
	Plasticity index and liquidity index	BS 1377:Part 2:1990	A, B, E
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	A, B, E
	Particle size distribution - dry sieving	BS 1377:Part 2:1990	A, B, E
	Particle size distribution - sedimentation - hydrometer method	BS 1377:Part 2:1990	E
	Density - immersion in water	BS 1377 Part 2:1990	B
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377:Part 4:1990	A, B, E
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377:Part 4:1990	A, B, E



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SOILS for civil engineering purposes (cont'd)	Dry density/moisture content relationship (vibrating hammer)	BS 1377:Part 4:1990	A, B, E
	MCV - natural moisture content	BS 1377:Part 4:1990	A, B, E
	MCV/moisture content relationship	BS 1377-4:1990	B
	California Bearing Ratio (CBR) (loads from 0.3 to 28 kN)	BS 1377:Part 4:1990	A, B, E
	Chalk crushing value	BS 1377 Part 4:1990	B
	Undrained shear strength - triaxial compression without measurement of pore pressure (loads from 0.3 to 28kN)	BS 1377:Part 7:1990	A, B, E
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure (loads from 0.3 to 28 kN)	BS 1377:Part 7:1990	A, B
	Shear strength - large shearbox (loads from 0 to 100 kN)	BS 1377:Part 7:1990	E
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377:Part 9:1990	C, D
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377:Part 9:1990	C, D, F
In-situ-density - core cutter method	BS 1377:Part 9:1990	C, D, F	
In-situ density - nuclear method - compliance tests - comparative tests	BS 1377:Part 9:1990	C, D, F	



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SOILS for civil engineering purposes (cont'd)	Vertical deformation and strength characteristics of soil by the plate loading test <i>(loads from 10 to 150 kN)</i>	BS 1377:Part 9:1990	C, D, F
	In-situ California Bearing Ratio (CBR) <i>(loads from 0.3 to 28 kN)</i>	BS 1377:Part 9:1990	C, D, F
	Uniformity coefficient	NRA Manual of Contract Documents Volume 1, Specification for roadworks, Series 600, Table 6/1, Footnote 5	E
	Effective angle of internal friction and effective cohesion <i>(loads from 0 to 100 kN)</i>	NRA Manual of Contract Documents Volume 1, Specification for roadworks, Clause 636 using a 300 mm shearbox	E
	Coefficient of friction and adhesion between fill and reinforcing elements or anchor elements for reinforced earth and anchored structures <i>(loads from 0 to 100 kN)</i>	NRA Manual of Contract Documents Volume 1, Specification for roadworks, Clause 639 using a 300 mm shearbox	E
	Standard penetration test: Measurement of the actual energy transmitted to the drive rods	BS EN ISO 22476-3:2005 Annex B	A, C
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A, E
END			