


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p style="text-align: center;">Accredited to ISO/IEC 17025:2005</p>	<b>Jacobs Engineering UK Ltd</b>	
	Issue No: 030    Issue date: 20 September 2010	
<b>Unit 1</b> Whitegate Industrial Estate Wrexham Wales LL13 8UG	<b>Contact: Mr W Gosling</b> Tel: +44 (0)1978-358895 Fax: +44 (0)1978-310240 E-Mail: bill.gosling@jacobs.com Website: www.jacobsbattie.com	
Testing performed by the Organisation at the locations specified below		

### Locations covered by the Organisation and their relevant activities

**Laboratory location:**

Location details	Activity	Location code				
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><b>Address</b></td> <td><b>Local contact</b></td> </tr> <tr> <td>Unit 1 Whitegate Industrial Estate Wrexham Wales LL13 8UG</td> <td>Mr W Gosling</td> </tr> </table>	<b>Address</b>	<b>Local contact</b>	Unit 1 Whitegate Industrial Estate Wrexham Wales LL13 8UG	Mr W Gosling	Laboratory testing: Aggregates, Bituminous Mixtures, Bituminous road surfacing, Concrete – fresh, Concrete – hardened, Road pavement surfaces, Soils for civil engineering purposes, Stabilized Materials for civil engineering purposes - cement- stabilized and lime-stabilized materials, Unbound and Hydraulically Bound Mixtures	A
<b>Address</b>	<b>Local contact</b>					
Unit 1 Whitegate Industrial Estate Wrexham Wales LL13 8UG	Mr W Gosling					

**Site activities performed away from the location listed above:**

Location details	Activity	Location code				
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><b>Address</b></td> <td><b>Local contact</b></td> </tr> <tr> <td>All locations suitable for the activities listed</td> <td>Mr W Gosling</td> </tr> </table>	<b>Address</b>	<b>Local contact</b>	All locations suitable for the activities listed	Mr W Gosling	Site sampling and testing	B
<b>Address</b>	<b>Local contact</b>					
All locations suitable for the activities listed	Mr W Gosling					



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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 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
	Particle size distribution - sieving method	BS EN 933-1:1997	A
	Flakiness index	BS EN 933-3:1997	A
	Water content	BS EN 1097-5:2008	A
BITUMINOUS MIXTURES for roads and other paved areas	Binder content and grading of mineral aggregate - extraction bottle method: binder determination by difference	BS 598-102:2003	A
	Binder content and grading of mineral aggregate - extraction bottle method: binder directly determined, filler by difference	BS 598-102:2003	A
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2005	A
	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
	Maximum density - volumetric procedure	BS EN 12697-5:2009	A
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen - by dimensions	BS EN 12697-6:2003	A
	Air voids content	BS EN 12697-8:2003	A



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BITUMINOUS MIXTURES for roads and other paved areas	Percentage of the voids in the mineral aggregate filled with binder (VFB)	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
	Wheeltracking (small size device procedures A – conditioned in air)	BS EN 12697-22: 2003	A
	Wheeltracking (small size device procedures B – conditioned in air)	BS EN 12697-22: 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	BS EN 12697-27:2001	B
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2001	B
	Sampling coated chippings from stockpiles	BS EN 12697-27:2001	B
	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2002	
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	A
	Wheel-tracking rate	BS 598-110:1998	A
Indirect tensile stiffness modulus (loads from 0 to 10 kN)	BS DD 213:1993	A	



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BITUMINOUS MIXTURES for roads and other paved areas	Resistance to permanent deformation - unconfined dynamic loading (RLAT) <i>(loads from 0 to 10 kN)</i>	BS DD 226:1996	A
	Resistance to permanent deformation - unconfined dynamic loading under vacuum (VRLAT) <i>(loads from 0 to 10 kN)</i>	BS DD 226:1996 modified in accordance with TRL PA 3287/97	A
BITUMINOUS ROAD SURFACING	In-situ density - nuclear method	Documented In-House Method No 3 : February 2002	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
	Making cubic specimens for strength tests	BS EN 12390-2:2009	A, B
CONCRETE - hardened	Curing cubic specimens for strength tests	BS EN 12390-2:2009	A, B
	Compressive strength of cubes - including curing <i>(loads from 40 to 2000 kN)</i>	BS EN 12390-3:2009 BS EN 12390-2:2009	A
	Density	BS EN 12390-7:2009	A
	Cored specimens - examining and testing in compression <i>(loads from 40 to 2000 kN)</i>	BS EN 12504-1:2009	A
ROAD PAVEMENT SURFACES	Texture depth by the sand-patch method	BS 598-105:2000	B
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	B
	Surface regularity using a rolling straight-edge	TRRL Supplementary Report 290:1977	B



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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	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
	Particle density - gas jar	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 by the pipette method	BS 1377-2:1990	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
MCV/moisture content relation	BS 1377-4:1990	A	
California Bearing Ratio (CBR) (loads from 0.3 to 10 kN)	BS 1377-4:1990	A	



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SOILS for civil engineering purposes	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 - compliance tests	BS 1377-9:1990	B
	In-situ California Bearing Ratio (CBR) (loads from 0.5 to 10 kN)	BS 1377-9:1990	B
	Equivalent CBR by plate bearing test (loads from 2 to 50 kN)	Design Manual for Roads and Bridges: Volume 7: Pavement design and Maintenance – Foundation IAN 73/06	B
STABILIZED MATERIALS for civil engineering purposes - cement-stabilized and lime-stabilized materials	In-situ bulk density - nuclear method by direct transmission - comparative tests	BS 1924-2:1990	B
	In-situ bulk density - nuclear method by direct transmission - compliance tests	BS 1924-2:1990	B
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A
END			