


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>	<h3>Tonkin Materials Testing</h3> <p>Issue No: 011 Issue date: 23 July 2010</p>	
	25A New North Road Exmouth Devon EX8 1RU	Contact: Mr G J Tonkin Tel: +44 (0)1395 222460 Fax: +44 (0)1395 222460 E-Mail: lab@tonkin.net Website: www.tonkin.net
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address 25A New North Road Exmouth Devon EX8 1RU	Contact Mr G J Tonkin	Testing: Aggregates; Physical tests Bituminous mixtures; Physical Tests Soils; physical tests
		Laboratory

Site activities performed away from the locations listed above:

Location details	Activity	Location code
All locations suitable for the activities listed	Contact: Mr G J Tonkin	Sampling: Aggregates Bituminous mixtures Soils
		Testing: Road pavement surfaces; Physical tests Soils; physical tests
		Site



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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	Methods for sampling - from stockpiles	BS EN 932-1:1997 Clause 8.8	Site
	Sample reduction - using a riffle box - by quartering	BS EN 932-2:1999	Site Laboratory
	Particle size distribution - sieving method	BS EN 933-1:1997	Laboratory
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	Laboratory
	Water content	BS EN 1097-5:2008	Laboratory
	Sampling coarse, fine and all-in aggregates - from heaps	BS 812-102:1989	Site
	Moisture content	BS 812-109:1990	Laboratory
	Particle size distribution - washing and sieving	BS 812-103 Section 103.1:1985	Laboratory
	Particle size distribution - dry sieving	BS 812-103 Section 103.1:1985	Laboratory
BITUMINOUS MIXTURES for roads and other paved areas	Sampling from - around the augers of the paver - workable material in heaps	BS EN 12697-27:2001	Site
	Sampling of finished material - core cutting method	BS EN 12697-27:2001	Site
	Sampling of coated chippings from stockpiles	BS EN 12697-27:2001	Site
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2001	Site Laboratory



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Temperature of Bituminous Mixtures - in laid material - in a heap	BS EN 12697-13:2000	Site
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2005	Laboratory
	Particle size distribution	BS EN 12697-2:2002	Laboratory
	Maximum density - Volumetric method	BS EN 12697-5:2002	Laboratory
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2003	Laboratory
	Air void content	BS EN 12697-8: 2003	Laboratory
	Percentage refusal Density (PRD)	BS EN 12697-9: 2002 BS EN 12697-6: 2003 BS EN 12697-32: 2003	Laboratory
	Determination of the thickness of a bituminous pavement - destructive measurement	BS EN 12697-36:2003	Laboratory
	Sampling from - around the augers of the paver - workable material in heaps	BS 598-100:2004	Site
	Sampling of finished material - core cutting method - square cut-outs method	BS 598-100:2004	Site
	Sampling of coated chippings from stockpiles	BS 598-100:2004	Site
Temperature of Bituminous Mixtures - in the hopper of a paver - in stockpiles - in laid material	BS 598-109:1990	Site	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Binder content and grading of mineral aggregate - extraction bottle method: binder determination by difference	BS 598-102:2003	Laboratory
	Percentage refusal Density (PRD)	BS 598-104:2005	Laboratory
	Density of Cores	BS 598-104:2005	Laboratory
	Air voids	BS 598-104:2005	Laboratory
	Maximum density - Method B	BSI DD 228:1996	Laboratory
	Air void content	Specification for Highway Works, HMSO, November 2004	Laboratory
	Binder volume	Specification for Highway Works, HMSO, November 2004, Clause 929.8	Laboratory
	Sampling of finished material - cores for laboratory testing	Documented In-House Method No. SP005:Jan 2002	Site
	Temperature of Bituminous Mixtures - in the augers of a paver	Documented In-House Method: TP042, December 2008	Site
	In-situ density	Documented In-house Method No. TP038:Jan 2002 using Nuclear Density meter	Site
ROAD PAVEMENT SURFACES	Pavement surface macrottexture depth using a volumetric patch technique	BS EN 13036-1:2002	Site
	Texture depth - by the sand-patch method	BS 598-105:2000	Site
	Surface regularity using a rolling straight-edge	Specification for Highway Works HMSO August 1986 Clause 702	Site
	Surface regularity using a rolling straight-edge	TRRL Supplementary Report 290:1977	Site



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SOILS for civil engineering purposes	Sampling earthworks materials	Documented In-house Method No. SP001: May 2002	Site
	Moisture content - oven drying method	BS 1377-2:1990	Laboratory
	Particle size distribution - wet sieving	BS 1377-2:1990	Laboratory
	Particle size distribution - dry sieving	BS 1377-2:1990	Laboratory
	Uniformity coefficient	BS 6100:Subsection 2.2.1:1992	Laboratory
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	Laboratory
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	Laboratory
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	Laboratory
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	Site
	In-situ density - core cutter method	BS 1377-9:1990	Site
	In-situ density - nuclear method - compliance tests	BS 1377-9:1990	Site
Dynamic cone penetration test	Documented In-house Method No. TP041 Issue 1.0 June 2008 based on: Design Manual for Roads and Bridges (Highways Agency) HD 25 IAN 73/06	Site	
END			