

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>	<h3>Testconsult Ireland Limited</h3> <p>Issue No: 008 Issue date: 03 May 2007</p>	
	<p>Clonminam Industrial Estate Portlaoise Co Laois Ireland</p>	<p>Contact: Mr M Robinson Tel: +00 353 5786 64885 Fax: +00 353 5786 64380 E-Mail: michael@testconsult.ie Website: www.testconsult.ie</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 Clonminam Industrial Estate Portlaoise Co Laois Ireland</p> <p>Local contact Mr M Robinson</p>	<p>Testing: Aggregates: Mechanical Tests; Physical tests Asphalt, bitumen, tar, pitch & bituminous materials: Physical tests Concrete, grout & mortar – hardened: Mechanical Tests; Physical tests Road Materials - unbound and hydraulically bound mixtures: Physical tests Road pavement surfaces: Physical tests Soils & stabilised soils: Mechanical Tests; Physical tests</p>	<p>Laboratory</p>

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>All locations suitable for the activities listed</p> <p>Contact: Mr M Robinson</p>	<p>Aggregates: Sampling Asphalt, bitumen, tar, pitch & bituminous materials: Sampling; Physical tests Concrete & mortar – fresh: Sampling; Physical tests Road pavement surfaces: Physical tests Soils & stabilised soils: Sampling; Mechanical Tests; Physical tests</p>	<p>Site</p>



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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	Site
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	Site
	Sampling coarse, fine and all-in aggregates - from heaps	BS 812:Part 102:1989	Site
	Particle size distribution - sieving method	BS EN 933-1:1997	Laboratory
	Flakiness index	BS EN 933-3:1997	Laboratory
	Assessment of fines - methylene blue test	BS EN 933-9:1999	Laboratory
	Micro-Deval coefficient	BS EN 1097-1:1996	Laboratory
	Micro-Deval coefficient	BS EN 1097-1:1996 modified in accordance with BS EN 13450:2002 Annex E	Laboratory
	Los Angeles coefficient	BS EN 1097-2:1998	Laboratory
	Los Angeles coefficient	BS EN 1097-2:1998 modified in accordance with BS EN 13450:2002 Annex C	Laboratory
	Water content	BS EN 1097-5:1999	Laboratory
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2000	Laboratory
Particle density and water absorption - pyknometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2000	Laboratory	



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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)	Aggregate crushing value - particle size 10mm and greater <i>(loads from 50 to 2000kN)</i>	BS 812:Part 110:1990	Laboratory
	Ten per cent fines value - dry - particle size 10mm and greater <i>(loads from 50 to 2000kN)</i>	BS 812:Part 111:1990	Laboratory
	Ten per cent fines value - soaked - particle size 10mm and greater <i>(loads from 50 to 2000kN)</i>	BS 812:Part 111:1990	Laboratory
	Particle size distribution - washing and sieving	BS 812:Part 103 Section 103.1:1985	Laboratory
	Particle size distribution - dry sieving	BS 812:Part 103 Section 103.1:1985	Laboratory
	Flakiness index	BS 812:Part 105 Section 105.1:1989	Laboratory
	Moisture content - oven drying method	BS 812:Part 109:1990	Laboratory
	Uniformity coefficient (221 2217)	BS 6100:Subsection 2.2.1:1992	Laboratory
BITUMINOUS MIXTURES for roads and other paved areas	Sampling from - around the augers of the paver	BS 598:Part 100:2004	Site
	Sampling of finished material - core cutting method	BS 598:Part 100:2004	Site
BITUMINOUS MIXTURES for roads and other paved areas	Binder content and grading of mineral aggregate - extraction bottle method: binder determination by difference	BS 598:Part 102:2003	Laboratory
	Percentage refusal density (PRD)	BS 598:Part 104:2005	Laboratory



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Temperature of bituminous mixtures - in the hopper of a paver - in laid-but-not-rolled material	BS 598:Part 109:1990	Site
	Maximum density - volumetric procedure	BS EN 12697-5:2002	Laboratory
	Air voids	Specification for Highway Works, November 2004, Clause 929	Laboratory
BITUMINOUS ROAD SURFACING	In-site density - nuclear method	Documented In-House Method WI No. 36, Issue 2, January 2005	Site
CONCRETE - fresh	Slump	BS EN 12350-2:2000	Site
	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2000	Site
CONCRETE - hardened	Compressive strength of cubes - including curing (loads from 50 to 2000kN)	BS 1881:Part 116:1983 BS 1881:Part 111:1983	Laboratory
	Compressive strength of cores (loads from 50 to 2000kN)	BS 1881:Part 120:1983	Laboratory
	Density	BS 1881:Part 114:1983	Laboratory
ROAD MATERIALS - unbound and hydraulically bound mixtures	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	Laboratory
ROAD PAVEMENT SURFACES	Texture depth - by the sand patch method	BS 598:Part 105:2000	Site
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2002	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 procedure TIL-WI-MMR-002(01)	Site
	Moisture content - oven drying method	BS 1377:Part 2:1990	Laboratory
	Liquid limit - cone penetrometer - one point	BS 1377:Part 2:1990	Laboratory
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	Laboratory
	Plastic limit	BS 1377:Part 2:1990	Laboratory
	Plasticity index and liquidity index	BS 1377:Part 2:1990	Laboratory
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	Laboratory
	Particle size distribution - dry sieving	BS 1377:Part 2:1990	Laboratory
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377:Part 4:1990	Laboratory
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377:Part 4:1990	Laboratory
	Dry density/moisture content relationship (vibrating hammer)	BS 1377:Part 4:1990	Laboratory
	California Bearing Ratio (CBR) (loads from 0.6 to 28kN)	BS 1377:Part 4:1990	Laboratory
	MCV - natural moisture content	BS 1377:Part 4:1990	Laboratory
Undrained shear strength in triaxial compression without measurement of pore pressure (definitive method) (loads from 0.6 to 28kN)	BS 1377-7:1990	Laboratory	



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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 3 to 70kN)</i>	BS 1377:Part 9:1990	Site
	In-situ California Bearing Ratio (CBR) <i>(loads from 0.6 to 28kN)</i>	BS 1377:Part 9:1990	Site
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377:Part 9:1990	Site
	In-situ density - core cutter method	BS 1377:Part 9:1990	Site
	In-situ density - nuclear method - compliance tests - comparative tests	BS 1377:Part 9:1990	Site
	Uniformity coefficient	BS 6100:Subsection 2.2.1:1992	Laboratory
END			