


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>Breedon Aggregates (Scotland) Limited.</h3>	
	<p>Issue No: 011 Issue date: 15 September 2010</p>	
	<p>Clatchard Laboratory Clatchard Quarry Cupar Road Newburgh Fife Scotland KY14 6JJ</p>	<p>Contact: Mr D P Hynd Tel: +44 (0)1337 840461 Fax: +44 (0)1337 841990 E-Mail: david.hynd@breedonaggregates.com Website:</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 Clatchard Laboratory Clatchard Quarry Cupar Road Newburgh Fife Scotland KY14 6JJ</p> <p>Local contact Mr D P Hynd Tel: +44 (0)1337 840461 Fax: +44 (0)1337 841990</p>	<p>Testing of aggregates, bitumen and bituminous mixtures, concrete and soils for civil engineering purposes</p>	A
<p>Address Craigenlow Quarry Dunecht Skene Aberdeenshire AB3 7ED</p> <p>Local contact Mr S Fullerton Tel: +44 (0)1330 833361 Fax: +44 (0)1330 833565</p>	<p>Testing of aggregates, bituminous mixtures, concrete and soils for civil engineering purposes.</p>	B
<p>Address Daviot Laboratory Daviot Quarry Inverness IV2 5XL</p> <p>Local contact Mr P Davidson Tel: +44(0)1463 772227 Fax: +44(0)1463 772232</p>	<p>Testing of aggregates, bituminous mixtures, concrete and soils for civil engineering purposes.</p>	C



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
All sites suitable for the activities listed.	Sampling and testing of aggregates, bituminous mixtures, fresh concrete, road pavement surfaces and soils for civil engineering purposes	D



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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 of aggregates from stockpiles and lorries.	BS EN 932-1:1997	D
	Reducing laboratory samples	BS EN 932-2:1999	A, B, C, D
	Particle size distribution by sieving	BS EN 933-1:1997	A, B, C
	Flakiness index	BS EN 933-3:1997	A, B, C
	Resistance to fragmentation by the Los Angeles Method	BS EN 1097-2:1998	A
	Loose bulk density and voids	BS EN 1097-3:1998	A
	Bulk density and calculation of voids and bulking of aggregate	BS 812- 2:1995	A
	Water content by drying in a ventilated oven.	BS EN 1097-5:2008	A, B, C
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2000	A
BITUMINOUS MATERIALS	Needle penetration - 25°C	BS EN 1426:2007	A
	Softening point - ring and ball method	BS EN 1427:2007	A
BITUMINOUS MIXTURES for roads and other paved areas	Sampling from - a lorry load - around the augers of the paver - workable material in heaps - laid but not rolled material - laid and compacted material by coring - coated chippings from stockpiles	BS EN 12697-27:2001	D
	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2001	A, B, C, D



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Measurements of temperature: - in a lorry - in laid materials - in a heap	BS EN 12697-13:2000	D
	Temperature of bituminous mixtures: - in the hopper of a paver	BS 598-109:1990	D
	Determination of the composition of design wearing course rolled asphalt	BS 598- 107:1996	A
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2005	A, B, C
	Particle size distribution	BS EN 12697-2:2005	A, B, C
	Maximum density: - volumetric procedure	BS EN 12697-5:2002	A
	Bulk density: - saturated surface dry (SSD) - by sealed specimen	BS EN 12697-6:2003 A1:2007	A
	Air voids content and percentage of the voids in the mineral aggregate filled with binder.	BS EN 12697-8:2003	A
	Conventional reference density, conventional refusal density and percentage refusal density (PRD)	BS EN 12697-9:2002	A
	Specimen preparation by impact compactor with wooden pedestal	BS EN 12697-30:2004	A
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	A
Hot sand test for the adhesivity of binder on pre-coated chippings	BS EN 12697-37:2003	A	



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CONCRETE - hardened	Compressive strength of cubic test specimens including curing	BS EN 12390-1:2000 BS EN 12390-2:2009 BS EN 12390-3:2009	A, B, C
	Density	BS EN 12390-7:2009	A, B, C
CONCRETE –fresh	Sampling fresh concrete on site	BS EN 12350-1:2009	D
	Slump	BS EN 12350-2:2009	D
	Air content pressure method B	BS EN 12350-7:2009	D
	Making test cubes	BS EN 12390-2:2009	A, B, C, D
ROAD PAVEMENT SURFACES	In-situ density – nuclear method	Documented In-House Method IHTM 2734	D
	Macrotexture using a volumetric patch technique	BS EN 13036-1:2002	D
	Texture depth by the sand patch method	BS 598:-105:2000	D
	Surface regularity using a rolling straight edge	Specification for Highway Works:Clause 702 TRRL Supplementary Report 290	D
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377- 2:1990	A, B, C
	Particle size distribution - wet sieving	BS 1377- 2:1990	A, B, C
	Particle size distribution - dry sieving	BS 1377- 2:1990	A, B, C
	Dynamic cone penetration	Documented In-House Method IHTM 2740	D
	Estimated CBR using a dynamic cone penetrometer	Documented In-House Method IHTM 2740 using Kleyn & Van Heerden (60 ° cone) DCP-CBR relationship criteria:1983	D
END			