


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>1420</p> <p>Accredited to ISO/IEC 17025:2005</p>	<b>BAM Nuttall Limited</b> <b>trading as BAM Ritchies</b>	
	<b>Issue No: 015    Issue date: 20 June 2010</b>	
	<b>Glasgow Road</b> <b>Kilsyth</b> <b>Glasgow</b> <b>G65 9BL</b>	<b>Contact: Ms M Marsh</b> <b>Tel: +44 (0)1236 467000</b> <b>Fax: +44 (0)1236 467030</b> <b>E-Mail: ritchies@bamritchies.co.uk</b> <b>Website: www.bamritchies.co.uk</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

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

BAM Nuttall Limited trading as BAM Ritchies is accredited for a flexible scope that enables them to establish site laboratories to conduct the activities detailed below marked 'Flexi', in accordance with their documented in-house procedure: LP09

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Glasgow Road Kilsyth Glasgow G65 9BL	<b>Local contact</b> Ms M Marsh Tel: +44 (0)1236 467000 Fax: +44 (0)1236 467030	Concrete, & Soils A
<b>Address</b> Site Laboratory SPRS Projects W17, Site 3 Seascale Sellafield Cumbria	<b>Local contact</b> Ms M Marsh Tel: +44 (0)1946 729496	Aggregates & Concrete B

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
<b>Address</b> All locations suitable for the activities listed	<b>Local contact</b> Ms M Marsh Tel: +44 (0)1946 729496	Site sampling & testing C



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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 flattened stockpiles - from conveyor belts - vehicles	BS EN 932-1:1997	B,C,Flexi
	Particle size distribution-washing and sieving	BS EN 933-1:1997	B, Flexi,
	Flakiness Index	BS EN 933-3:1997	B,Flexi,
	Shape Index	BS EN 933-4:2000	B,Flexi,
	Resistance to fragmentation of coarse aggregate - Los Angeles method	BS EN 1097-2:1997	B,
	Loose bulk density and voids	BS EN 1097-3:1998	B,Flexi
	Water Content	BS EN 1097- 5 : 1999	B,Flexi
	Particle density and water absorption - pyknometer method for aggregate between 4mm and 31,5mm	BS EN 1097-6:2000	B,Flexi
SOILS for civil engineering purposes	Particle density and water absorption - pyknometer method for aggregate between 0,063mm and 4mm	BS EN 1097-6:2000	B,Flexi
	Moisture content - oven drying method	BS 1377-2:1990	A,Flexi
	Liquid limit - cone penetrometer	BS 1377-2:1990	A,Flexi
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A,Flexi
	Plasticity index and liquidity index	BS 1377-2:1990	A



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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 purpose (cont'd)	Density - linear measurement	BS 1377-2:1990	A, Flexi
	Particle density - gas jar	BS 1377-2:1990	A, Flexi
	Particle density - large pycnometer	BS 1377-2:1990	A
	Particle size distribution - wet sieving	BS 1377-2:1990	A, Flexi
	Particle size distribution - sedimentation - hydrometer method	BS 1377-2:1990	A, Flexi
	California Bearing Ratio (CBR) (loads from 0.5 to 28kN)	BS 1377-4:1990	A
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A, Flexi
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	A, Flexi
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	A, Flexi
	Moisture condition value (MCV)	BS 1377-4:1990	A, Flexi
	One-dimensional consolidation properties	BS 1377-5:1990	A
	Undrained shear strength – triaxial compression without measurement of pore pressure cell pressure up to 1,000kPa (loads from 0.5 to 28kN)	BS 1377-7:1990	A
Moisture condition value	SDD Tech Memo SH7/83. SDD Appls Guide No1 (Rev 1989)	A,	
CONCRETE - fresh	Sampling fresh concrete	BS EN 12350-1:2009	B,C, Flexi
	Slump	BS EN 12350-2:2009	B,C, Flexi
	Flow table test	BS EN 12350-5 2009	B,C, Flexi



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CONCRETE - fresh (cont'd)	Making cubic specimens for strength tests	BS EN 12390-2:2009	B,C,Flexi
CONCRETE - hardened	Compressive strength of cubes <i>(loads from 10 to 2000kN)</i> <i>(loads from 40 to 2000kN)</i>	BS EN 12390-3:2009	A,B,Flexi
	Shape, Dimensions	BS EN 12390-1:2000	A,B,Flexi
	Curing	BS EN 12390-2:2009	A,B,Flexi
	Density	BS EN 12390-7:2009	A,B,Flexi
MORTARS and GROUTS - hardened	Curing	BS 4551:1998 BS EN 1015-11:2000	A,B
END			