


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>2005</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>Breedon Trading Limited</h3> <p>Issue No: 025 Issue date: 28 June 2021</p>	
	<p>Ethiebeaton Quarry Kingennie Monifieth Angus DD5 3RB</p>	<p>Contact: Mr D. McGhee Tel: +44 (0) 1698 811 100 E-Mail: damian.mcghee@breedongroup.com Website: www.breedongroup.com</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 KY14 6JJ</p> <p>Local contact Ms Y. Mitchell Tel: +44 (0) 1337 841 952 Email: yvonne.mitchell@breedongroup.com</p>	Testing of aggregates, bitumen and bituminous mixtures, concrete and soils	A
<p>Address Inverness Laboratory 23a Longman Drive Inverness IV1 1SU</p> <p>Local contact Mr J. Woods Tel: +44 (0) 7803 284 390 Email: james.woods@breedongroup.com</p>	Testing of aggregates, bituminous mixtures, concrete and soils	B
<p>Address Toms Forest Laboratory Toms Forest Quarry Kintore AB51 0YU</p> <p>Local contact Mr J. Woods Tel: +44 (0) 7803 284 390 Email: james.woods@breedongroup.com</p>	Testing of aggregates, bituminous mixtures, concrete and soils.	C
<p>Address trading as Heathfield Testing Services Killoch Ochiltree KA18 2RL</p> <p>Local contact Mr J. Clark Tel: +44 (0) 1290 700 780 Email: jason.clark@breedongroup.com</p>	Testing of aggregates, bituminous mixtures, concrete and soils	D
<p>Address Raisby Laboratory Raisby Hill Quarry Coxhoe Durham DH6 4BB</p> <p>Local contact Mr D. Dobson Tel: +44 (0) 7798 604 941 Email: dave.dobson@breedongroup.com</p>	Testing of aggregates and concrete.	E



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
Address Hawkbank Road College Milton Industrial Estate East Kilbride G74 5HB	Local contact Mr D. McGhee Tel: +44 (0)1698 811 100 Email: damian.mcghee@breedongroup.com	Testing testing of concrete F
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	X



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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.	BS EN 932-1:1997	X
	Reducing laboratory samples	BS EN 932-2:1999	A B D E X
	Particle size distribution by sieving	BS EN 933-1:2012	A B D E
	Flakiness index	BS EN 933-3:2012	A B D E
	Resistance to wear – Micro Deval method	BS EN 1097-1:2011	D
	Resistance to fragmentation by the Los Angeles Method	BS EN 1097-2:2020	A D
	Loose bulk density and voids	BS EN 1097-3:1998	A D E
	Bulk density and calculation of voids and bulking of aggregate	BS 812- 2:1995	A E
	Water content by drying in a ventilated oven.	BS EN 1097-5:2008	A B D E
	Particle density and water absorption - pyknometer method for aggregate particles between 0.063 mm and 31,5 mm	BS EN 1097-6:2013	A D
	Magnesium sulfate test	BS EN 1367-2:2009	D
	Drying shrinkage	BS EN 1367-4:2008	D
ARMOURSTONE	Particle density and water absorption	BS EN 13383-2:2019	C
BITUMINOUS MIXTURES for roads and other paved areas	Sampling - 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 12697-27:2017	X



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Preparation of samples for determining binder content, water content and grading	BS EN 12697-28:2020	A B D X
	Measurements of temperature: - in a lorry - in laid materials - in a heap	BS EN 12697-13:2017	X
	Protocol for determining the design binder content of designed HRA surface course mixtures	BS 594987:2015 Annex H	A
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2020	A B
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2020	A D
	Particle size distribution	BS EN 12697-2:2015+A1:2019	A B D
	Maximum density: - volumetric procedure	BS EN 12697-5:2018	A D
	Bulk density: - dry - saturated surface dry (SSD) - by sealed specimen	BS EN 12697-6:2020	A D
	Air voids content and percentage of the voids in the mineral aggregate filled with binder.	BS EN 12697-8:2018	A D
	Conventional reference density, conventional refusal density and percentage refusal density (PRD) Specimen preparation by impact compactor with wooden pedestal	BS EN 12697-9:2002 (withdrawn) BS EN 12697-30:2020	A D A



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	A D
	Determination of the thickness of a bituminous pavement	BS EN 12697-36:2003	X
	Hot sand test for the adhesivity of binder on pre-coated chippings	BS EN 12697-37:2003	A
	Binder content by ignition method	BS EN 12697-39:2020	C
CONCRETE - hardened	Shape, dimensions	BS EN 12390-1:2012	A B C D E F
	Curing	BS EN 12390-3:2019	A B C D E F
	Compressive strength of cubes	BS EN 12390-3:2019	A B C D E F
	Density	BS EN 12390-7:2019	A B C D E F
	Cored specimens – taking, examining and testing in compression	BS EN 12504-1:2019	D X
CONCRETE – fresh	Sampling fresh concrete on site	BS EN 12350-1:2019	X
	Slump	BS EN 12350-2:2019	X
	Density	BS EN 12350-6:2019	X
	Air content – pressure method	BS EN 12350-7:2019	X
	Making test cubes	BS EN 12390-2:2019	A B D E F



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GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	A D
ROAD PAVEMENT SURFACES	In-situ density – nuclear method	Documented In-House Method IHTM 2734	X
	Macrotexture using a volumetric patch technique	BS EN 13036-1:2010	X
	Texture depth by the sand patch method	BS 598-105:2000	X
	Surface regularity using a rolling straight edge	Specification for Highway Works February 2016 Clause 702	X
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377- 2:1990	A D
	Particle size distribution - wet sieving - dry sieving	BS 1377- 2:1990	A D
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	D
	Plastic limit	BS 1377-2:1990	D
	California bearing ratio (CBR)	BS 1377-4:1990	D
	Dry density/moisture content relationship - 2.5 kg rammer - 4.5 kg rammer - vibrating hammer	BS 1377-4:1990	D
	Moisture condition value (MCV) Insitu California bearing ratio (CBR)	BS 1377-4:1990 BS 1377-9:1990	D X
	Insitu density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	X
	Vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990	X



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SOILS for civil engineering purposes (cont'd)	Calculation of equivalent CBR value using the plate bearing test	Interim Advice Note (IAN) 73/06 – Design Guidance for Road Pavement Foundations (HD25): 2009 Rev 1	D X
	Dynamic cone penetration	Documented In-House Method IHTM 2740	X
	Estimated CBR using a dynamic cone penetrometer	Documented In-House Method IHTM 2740 using Kleyn & Van Heerden (60 ° cone) DCP-CBR relationship criteria:1983	A D X
END			