


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 UKAS TESTING 4107 Accredited to ISO/IEC 17025:2005	Geosynthetics Soil & Steel Laboratories Ltd	
	Issue No: 004 Issue date: 14 September 2011	
	Calder Trading Estate Leeds Road Bradley Huddersfield HD5 0RS	Contact: Mr T Dixon Tel: +44 (0)1484 454100 Fax: +44 (0)1484 454101 E-Mail: info@geosynthetics-lab.com Website: www.geosynthetics-lab.com
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 Calder Trading Estate Leeds Road Bradley Huddersfield HD5 0RS Local contact Mr T Dixon	Geotextiles Geomembranes Geosynthetic clay liners Soils	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
All locations suitable for the activities listed Mr T Dixon	Soils	B



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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
GEOTEXTILES and Geotextile related products	<u>Dimensional Tests</u>		
	Thickness (t>1mm) at specified pressures (2 kPa)	BS EN ISO 9863-1:2005 ASTM D5199-01	A
	Thickness	ANSI/NSF Modification Standard 54:1993, Annex A, Part 1. ASTM D751:1995	A
	<u>Mechanical Tests</u>		
	Grab breaking load (forces from 0.10 kN to 25 kN)	ASTM D4632-91(03)	A
	Static puncture test (CBR) (forces from 0.20 kN to 25 kN)	BS EN ISO 12236:1996 ASTM D4833-00 ^{e1} BS 6906:Part 4:1989 (withdrawn) DIN 54307:1982 ASTM D6241:1999	A
	Resistance to perforation	BS EN 918:1996 BS 6906:Part 6:1990 (withdrawn) BS EN ISO 13433:2006	A
	Trapezoid tearing strength (forces from 0.1 kN to 25 kN)	ASTM D4533- 04	A
	Wide-width tensile (forces from 0.1 kN to 25 kN)	BS EN ISO 10319:1996 BS 6906:Part 1:1987(1995) ASTM D4885:01 ASTM D4595:1986(1994)	A
	Pore/Opening size by dry sieving by wet sieving	ASTM D 4595-04 BS EN ISO 12956:1999	A
Tensile test for joints/seams by wide-width method	ISO 10321:1992/ BS EN ISO 10321:1996	A	



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GEOTEXTILES and Geotextile related products (cont'd)	<u>Physical Tests</u> Mass per unit area	BS EN 9864:2005 BS EN 965:1995 (Withdrawn) ISO 9864:1990 ASTM D 5261-92(03)	A
GEOMEMBRANES	<u>Dimensional Tests</u> Thickness (t>1mm) at specified pressures (20kPa & 200 kPa) Thickness of Geomembranes	ASTM D5199-01 ASTM D5994-98(03) ANSI/NSF Modification Standard 54:1993, Annex A, Part 1 ASTM D751:1995	A A
	<u>Mechanical Tests</u> Peel testing of seams	ASTM D4437-99 ASTM D6392-99(06) NSF 54-5:1993 ASTM D413:98	A
	Shear testing of seams	ASTM D4437-99 ASTM D6392-99(06) NSF 54-5:1993 ASTM D816:82 Method B	A
	Static puncture (CBR) (forces from 0.20 kN to 25 kN)	BS EN ISO 12236:1996 ASTM D4833- 00e1 BS 6906:Part 4:1989 (withdrawn) DIN 54307:1982 ASTM D6241:1999	A
	Tear resistance	ASTM D1004-03	A
	Tensile & Elongation	ASTM D6693-04	A



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GEOMEMBRANES (cont'd)	<u>Mechanical Tests</u>		
	Tensile properties of plastics	ANSI/NSF modification Standard 54:1993 - D638 Type IV (Withdrawn)	A
	Tensile properties using a wide width strip	ASTM D4885:01 ASTM D4595:01	A
	<u>Physical Tests</u>		
	Carbon black content	ASTM D4218-96(01)	A
	Carbon black dispersion in polyolefin geosynthetics	ASTM D5596-03	A
	Mass per unit area	BS EN ISO 9864:2005	A
	Asperity height	Test method GRI: GM12	A
	Density of plastics	ASTM D1505-03e1	A
	Water absorption	ASTM D570:1995	A
GEOSYNTHETIC CLAY LINERS	<u>Mechanical Tests</u>		
	Static puncture (CBR) (forces from 0.20 kN to 25 kN)	BS EN ISO 12236:1996 BS 6906:Part 4:1989 (withdrawn) DIN 54307:1982 ASTM D6241:1999	A
	Tensile strength - wide width strip	BS EN ISO 10319:1996 BS 6906:Part 1:1987(1995) (withdrawn) ASTM D4885:01 ASTM D4595:1986(1994)	A
	Grab break load and elongation	ASTM D4632-91(03)	A
	Peel strength	ASTM D6496 -04a and ASTM D4632-91 (03) modified method for reporting results ASTM D413: 1982(1993)	A



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GEOSYNTHETIC CLAY LINERS (cont'd)	<u>Dimensional Tests</u>		
	Thickness (t>1mm) at specified pressures (20kPa)	BS EN ISO 9863-1:2005 ASTM D5199-01(06)	A
	<u>Physical Tests</u>		
	Mass per unit area	BS EN ISO 9864:2005 BS EN 965:1995 (Withdrawn) ASTM D5261-91(03) ASTM D5993-99(04)	A
	Moisture content (GCL)	ASTM D2216-05	A
	Bentonite free swell	ASTM D5890-06	A
	Moisture content of Bentonite	ASTM D4643-00	A
	Methylene Blue	API Recommended Practice 13I	A
	Montmorillonite Content	ISO 10416:2002	A
	SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377:Part 2:1990 ASTM D4643-00
Particle density - Gas jar		BS 1377- 2:1990	A
Particle density - small pyknometer		BS 1377-Part 2:1990	A
Liquid limit - cone penetrometer		BS 1377-2:1990	A
Liquid limit - cone penetrometer - one point		BS 1377-2:1990	A
Plastic limit		BS 1377-2:1990	A
Plasticity index and liquidity index		BS 1377-2:1990	A



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SOILS for civil engineering purposes (cont'd)	Particle size distribution - wet sieving	BS 1377-2:1990	A
	Particle size distribution - dry sieving	BS 1377-2:1990	A
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	A
	Moisture condition value (MCV)	BS 1377-4:1990	A
	MCV - natural moisture content	BS 1377-4:1990	A
	California Bearing Ratio (CBR) (loads from 0 to 50 kN)	BS 1377-4:1990	A
	Vertical deformation and strength characteristics by the incremental plate loading test (loads from 5 to 230 kN)	BS 1377-9:1990	B
	Determination of equivalent CBR value using the plate bearing test. (loads from 5 to 230kN)	Design Manual for Roads and Bridges. Volume 7: Pavement Design and Maintenance. IAN 73/06 Revision 1 (2009):Foundations	B
In-situ California Bearing Ratio (CBR) (loads from 0.25 to 28 kN)	BS 1377-9:1990	B	
SOILS	Methylene Blue	API Recommended Practice 131	A
	Montmorillonite Content	ISO 10416:2002	A

END