

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>ACS Analysis Ltd</h3>	
	<p>Issue No: 016 Issue date: 06 December 2010</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
GEOMEMBRANES	Initial tear resistance <i>(loads from 0 to 2.5 kN)</i>	ASTM D 1004-09
	Density by the density-gradient technique	ASTM D 1505-03
	Carbon black content in olefin plastics	ASTM D 1603-06
	Integrity of field seams - 180° peel strength <i>(loads from 0 to 2.5 kN)</i>	ASTM D 4437-99 ASTM D 413-98 (2002)e1 (Type A)
	Integrity of field seams - shear strength <i>(loads from 0 to 2.5 kN)</i>	ASTM D 4437-99 ASTM D 816-06 (Method B)
	Index puncture resistance <i>(loads from 0 to 2.5 kN)</i>	ASTM D 4833-07
	Nominal thickness	ASTM D 5199-01 (2006)
	Calculation of 2% secant modulus for polyethylene geomembranes	ASTM D 5323-92 (2006)
	Microscopic evaluation of the dispersion of carbon black	ASTM D 5596-03
	Core thickness of textured geomembrane	ASTM D 5994-98 (2003)
Integrity of nonreinforced geomembrane seams - peel testing - shear testing <i>(loads from 0 to 2.5 kN)</i>	ASTM D 6392-08	



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GEOMEMBRANES	Tensile properties <i>(loads from 0 to 2.5 kN)</i>	ASTM D 6693-04 (2010)
	Tensile properties <i>(loads from 0 to 2.5 kN)</i>	ANSI/NSF Modification Standard 54: 1993 Annex A Part 8, based on ASTM D 638-08, using type IV die
	Asperity measurement using a depth gauge	Geosynthetic Research Institute test method GM12
GEOSYNTHETIC CLAY LINERS	Grab breaking load and elongation <i>(loads from 0 to 2.5 kN)</i>	ASTM D 4632-08
	Index flux using a flexible wall permeameter	ASTM D 5887-09
	Calculation of hydraulic conductivity using index flux test data	ASTM D 5887-09
	Swell index of clay mineral component	ASTM D 5890-06
	Mass per unit area	ASTM D 5993-99 (2004)
	Bonding peel strength <i>(loads from 0 to 2.5 kN)</i>	ASTM D 6496-04a (2009)
	Peel strength <i>(loads from 0 to 2.5 kN)</i>	Documented In-House Method No 7 : August 2006 based on ASTM D 4632-08
GEOTEXTILES	Dynamic perforation test (cone drop test)	BS EN ISO 13433:2006
	Nominal thickness	BS EN ISO 9863-1:2005 ASTM D 5199-01 (2006)
	Mass per unit area	BS EN ISO 9864:2005
	Wide-width tensile test <i>(loads from 0 to 50 kN)</i>	BS EN ISO 10319:2008
	Static puncture test (CBR-Test) <i>(loads from 0 to 50 kN)</i>	BS EN ISO 12236:2006



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SOILS for civil engineering purposes	Moisture content - oven drying method Density - linear measurement Permeability in a triaxial cell Determination of the permeability of clayey soils in a triaxial cell using the accelerated permeability test	BS 1377-2:1990 BS 1377-2:1990 BS 1377-6:1990 Environment Agency R & D Technical Report P1-398/TR/2 : January 2003
END		