

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p style="text-align: center;">Accredited to ISO/IEC 17025:2005</p>	<h3 style="margin: 0;">Pavement Testing Services Limited</h3> <p style="margin: 0;">Issue No: 022 Issue date: 13 February 2012</p>	
	<p>Unit 7, Cowling Business Park Canal Side Chorley PR6 0QL</p>	<p>Contact: Mr M Hayes Tel: +44 (0)1257 233 242 Fax: +44 (0)1257 469 185 E-Mail: mike@ptsinternational.co.uk Website: www.ptsinternational.co.uk</p>

Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Pavement Testing Services Limited is accredited for a flexible scope for the commissioning of laboratories for site contracts in accordance with documented in-house procedure: A22 Control of site labs' for the scope of activities detailed below marked 'Flexi

Laboratory locations:

Location details	Activity	Location code
<p>Address Unit 7, Cowling Business Park Canal Side Chorley PR6 0QL</p> <p>Local contact Mr M Hayes Tel: +44 (0)1257 233 242</p>	<p>Testing: Aggregates - physical tests Bitumen Road Emulsions - physical tests Bituminous Materials - physical tests Bituminous Mixtures - mechanical, tests, physical tests Pavement Surface Treatments - mechanical tests, physical tests Concrete - mechanical tests, physical tests Soils - mechanical tests, physical tests</p>	PR6
<p>Address Fairclough House Church Street Adlington Chorley Lancashire PR7 4LB</p> <p>Local contact Mrs Jo Latham Tel: +44 (0)1257 481 782</p>	<p>Aggregates: Mechanical Tests; Physical Tests Concrete: Mechanical Tests; Physical Tests Soils: Mechanical Tests; Physical Tests</p>	PR7

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>All locations suitable for the activities listed</p> <p>Local contact Mr M Hayes</p>	<p>Sampling: Aggregates; Bituminous mixtures; Concrete - fresh; Road pavement surfaces; Soils</p> <p>Testing: Concrete - mechanical tests, physical tests Concrete structures & reinforcement -</p>	Site



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Non-destructive tests
Bituminous road surfacing - physical tests
Soils - physical tests, mechanical tests
Hot Binder Distributors - physical tests
Paved surfaces - physical tests

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES	Particle size distribution - sieving method	BS EN 933-1:1997	PR6 PR7
	Flakiness index	BS EN 933-3:1997	PR6 PR7
	Shape index	BS EN 933-4:2008	PR6
	Micro-Deval coefficient	BS EN 1097-1:2011	PR6
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:1998	PR6 PR7
	Water content	BS EN 1097-5:2008	PR6 PR7
	Particle density and water absorption - wire-basket method for aggregate particles between 31,5 mm and 63 mm	BS EN 1097-6:2000	PR6
	Particle density and water absorption - pycnometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2000	PR6 PR7
	Particle density and water absorption - pycnometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2000	PR6 PR7
	Polished stone value	BS EN 1097-8:2009	PR6
Aggregate abrasion value	BS EN 1097-8:2009	PR6	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont.)	Magnesium sulfate test (excluding simple petrographical description)	BS EN 1367-2:1998	PR6
	Classification test for the constituents of coarse recycled aggregate	BS EN 933-11:2009	PR6
	Frost-heave	BS 812-124:2009	PR6
	Sampling coarse, fine and all-in aggregates - from heaps - from a lorry-load - from laid material	BS 812-102:1989	Site
	Particle density and water absorption for aggregate all larger than 10 mm	BS 812-2:1995	PR7
	Particle density and water absorption for aggregate between 40 mm and 5 mm	BS 812-2:1995	PR7
	Particle density and water absorption for aggregate 10 mm nominal size and smaller	BS 812-2:1995	PR7
	Particle density and water absorption - alternative method for aggregate between 40 mm and 5 mm nominal size	BS 812-2:1995	PR7
	Particle size distribution - washing and sieving	BS 812-103 Section 103.1:1985	PR7
	Particle size distribution - dry sieving	BS 812-103 Section 103.1:1985	PR7
	Flakiness index	BS 812-105 Section 105.1:1989	PR7
	Ten per cent fines value - dry - particle size 10 mm and greater (loads from 20 to 3000 kN)	BS 812-111:1990	PR7



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AGGREGATES (cont'd)	Ten per cent fines value - soaked - particle size 10 mm and greater <i>(loads from 20 to 3000 kN)</i>	BS 812-111:1990	PR7
	Uniformity coefficient	Specification for Highway Works: Series 600: Table 6-1: Footnote 5	PR6
BITUMEN ROAD EMULSIONS (ANIONIC and CATIONIC)	Azeotropic Distillation (water content)	BS EN 1428:2000	PR6
	Emulsion - Storage stability	BS EN 1429:2009	PR6
	Efflux viscometer	BS EN 12846:2002	PR6
	Determination of settling tendency of bitumen emulsions	BS EN 12847:2009	PR6
	Recovery of binder from bitumen emulsions by evaporation	BS EN 13074:2002	PR6
	Viscosity (Redwood No II)	BS 434-2:2006	
BITUMINOUS MATERIALS	Needle penetration - 25 °C	BS EN 1426:2007	PR6
	Softening point - ring and ball method	BS EN 1427:2007	PR6
	Recovery of bitumen binders by dichloromethane extraction rotary film evaporator method	BS EN 12697-3:2005	PR6
	Cohesion of bituminous binders with pendulum test	BS EN 13588:2008	PR6
	Complex shear modulus and phase angle - dynamic shear rheometer (DSR) method	BS EN 14770:2005	PR6
	Modified binder storage stability	Specification for Highway Works, HMSO August 2008 Clause 958 method B	PR6



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BITUMINOUS MIXTURES for roads and other paved areas	Slurry surfacing: Sampling for binder extraction	BS EN 12274-1:2002	Site
	Residual binder content	BS EN 12274-2: 2003	PR6
	Slurry Surfacing: Cohesion of the Mix	BS EN 12274-4:2003	PR6
	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2005	PR6
	Soluble binder content by recovery, using bottle rotation machine, bucket centrifuge type 1 and volume calculation	BS EN 12697-1:2005	PR6
	Particle size distribution	BS EN 12697-2:2002	PR6
	Maximum density - volumetric procedure	BS EN 12697-5:2002	PR6
	Bulk density - dry - sealed specimen - saturated surface dry (SSD) - by dimensions	BS EN 12697-6:2003	PR6
	Air voids content	BS EN 12697-8:2003	PR6
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	PR6
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002	PR6
	Water sensitivity Method A	BS EN 12697-12:2008	PR6
Wheel tracking using a small size device and procedure A	BS EN 12697-22:2003	PR6	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Wheel tracking using a small size device and procedure B	BS EN 12697-22:2003	PR6
	Indirect tensile strength	BS EN 12697-23:2003	PR6
	Resistance to fatigue - indirect tensile test on cylindrical shaped specimens	BS EN 12697-24:2004	PR6
	Stiffness - test applying indirect tension to cylindrical specimens (IT-CY)	BS EN 12697-26:2004	PR6
	Sampling of finished material - core cutting method	BS EN 12697-27:2001	Site
	Determination of the dimensions of a bituminous sample	BS EN 12697-29:2002	PR6
	Specimen preparation by impact compactor with wooden pedestal	BS EN 12697-30:2004	PR6
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2003	PR6
	Marshall test (loads from 1 to 25 kN)	BS EN 12697-34:2004	PR6
	Laboratory mixing	BS EN 12697-35:2004	PR6
	Hot sand test for the adhesivity of binder on precoated chippings for HRA	BS EN 12697-37:2003	PR6
	Wheeltracking rate	BS 598-110: 1998	PR6
Protocol for determining the design binder content of designed HRA surface course mixtures (loads from 1 to 25 kN)	BS 594987:2010 Annex H	PR6	



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BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Indirect tensile stiffness modulus <i>(loads from 0 to 10 kN)</i>	BS DD 213:1993	PR6
	Resistance to permanent deformation - unconfined dynamic loading (RLAT) <i>(loads from 0 to 10 kN)</i>	BS DD 226:1996	PR6
	Resistance to permanent deformation - unconfined dynamic loading under vacuum (VRLAT) <i>(loads from 0 to 10 kN)</i>	BS DD 226:1996 modified in accordance with TRL PA 3287/97	PR6
	Fatigue characteristics using indirect tensile fatigue <i>(loads from 0 to 10 kN)</i>	Documented In-House Method: C6 ITFT Issue 3, 22/07/102 3-10-06 based on BS DD ABF: 1995	PR6
	Sensitivity to water <i>(loads from 0 to 10 kN)</i>	BBA Guidelines Document SG3/08/256, May 2008, Appendix A2	PR6
BITUMINOUS ROAD SURFACING	In-situ density - Dielectric method	Documented In-House Method: C57, Issue 4, July 10	Site
CONCRETE - fresh	Sampling fresh concrete on site - composite sample - spot sample	BS EN 12350-1:2009	Site
	Slump	BS EN 12350-2:2009	Site
	Flow	BS EN 12350-5:2009	Site
	Air content - pressure gauge method	BS EN 12350-7:2009	Site
	Making cubic specimens for strength tests	BS EN 12390-2:2009	PR6 PR7 Site



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CONCRETE - hardened	Compressive strength of cubes - including curing (loads from 10 to 2000 kN)	BS EN 12390-3:2009 BS EN 12390-1:2000 BS EN 12390-2:2009	PR6
	Compressive strength of cubes - including curing (loads from 20 to 3000 kN)	BS EN 12390-3:2009 BS EN 12390-1:2000 BS EN 12390-2:2009	PR7
	Density	BS EN 12390-7:2009	PR6 PR7
	Cored specimens - examining and testing in compression (loads from 10 to 2000 kN)	BS EN 12504-1:2009	PR6
	Compressive strength of cores (loads from 20 to 3000 kN)	BS 1881-120:1983	PR7
	Density	BS 1881-114:1983	PR7
	Assessment of concrete strength by near-to-surface tests - tensile pull-off test	BS 1881-207:1992	Site
	Depth of carbonation	BRE IP 6/81	Site
CONCRETE - reinforced	Location of reinforcement	BS 1881-204:1988	Site
	Half-cell potential of uncoated reinforcing steel in concrete	ASTM C 876-91 (1999)	Site
	Resistivity	BS 1881-201:1986 / Documented In-House Method: C73, Issue 1, 17/03/09	Site
GEOSYNTHETICS	Coefficient of soil and geosynthetic friction by direct shear	ASTM D5321-08	PR7
	Coefficient of geosynthetic and geosynthetic friction by direct shear	ASTM D5321-08	PR7



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HOT BINDER DISTRIBUTORS for road surface dressing	Uniformity of transverse distribution of binder (depot tray test)	BS 1707:1989	Site
PAVEMENT SURFACE TREATMENTS	High Friction Surfacing: Scuffing	TRL 176: 1997	PR6
	High Friction Surfacing: Sample preparation	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6
	High Friction Surfacing: Texture depth	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6
	High Friction Surfacing: Skid resistance value	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6
	High Friction Surfacing: Degree of erosion and visual observations	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6
	High Friction Surfacing: Tensile Adhesion	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6
	High Friction Surfacing: Heat ageing conditioning	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6
	High Friction Surfacing: Freeze/thaw conditioning	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6
	High Friction Surfacing: Diesel susceptibility conditioning	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6
	High Friction Surfacing: Thermal Movement	TRL 176:1997 BBA Guideline RSG1.08.189 March 2008	PR6



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PAVED SURFACES	Rate of spread of binder	BS EN 12272-1:2002	Site
	Rate of spread of chippings	BS EN 12272-1:2002	Site
	Surface dressing: Visual assessment of defects	BS EN 12272-2:2003	Site
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	Site
	Slip/skid resistance of a surface - the pendulum test	BS EN 13036-4:2003 BS 7976-2:2002	Site
	Surface regularity using a rolling straight-edge	Specification for Highway Works, HMSO November 2004 Clause 702 TRRL Supplementary Report 290:1977	Site
	Thin Surfacing for Highway Road Surfaces: Torque Bond Test	BBA Guidelines SG3/08/234 Appendix A	PR6
	Sampling of bituminous materials - core cutting method	Documented In-house Method: S2, Issue 2, 22-2-07 based on Design Manual for Roads and Bridges, HMSO, May 1999, HD 30/99 and BS EN 12697-27:2001	Site
	Falling Weight Deflectometer (FWD) (loads from 34 to 102 kN)	Documented In-house Method: S1, Issue 7, 24/05/10, based on Design Manual for Roads and Bridges Volume 7, Section 2, Part 2 HD29/08. Indirect verification by TRL	Site
Core Logging	Documented In-house Method: C14, Issue 3, 14/03/08 based on Design Manual for Roads and Bridges, HMSO, May 1999, HD 30/99 Annex A	Site	



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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 purposes	Obtaining disturbed samples from excavating equipment	BS 5930:1981	Site
	Moisture content - oven drying method	BS 1377-2:1990	PR6 PR7 Flexi
	Liquid limit - cone penetrometer (definitive method)	BS 1377-2:1990	PR6 PR7
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	PR6 PR7
	Plastic limit	BS 1377-2:1990	PR6 PR7
	Plasticity index	BS 1377-2:1990	PR6 PR7
	Plasticity index and liquidity index	BS 1377-2:1990	PR7
	Particle density - gas jar	BS 1377-2:1990	PR6
	Particle density - small pycnometer	BS 1377-2:1990	PR7
	Particle size distribution - wet sieving	BS 1377-2:1990	PR6 PR7
	Particle size distribution - dry sieving	BS 1377-2:1990	PR6 PR7
	Particle size distribution - sedimentation - hydrometer method	BS 1377-2:1990	PR6
	Particle size distribution - sedimentation - pipette method	BS 1377-2:1990	PR7
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	PR6 PR7



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SOILS for civil engineering purposes (cont'd)	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	PR6 PR7
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	PR6 PR7
	Moisture condition value (MCV)	BS 1377-4:1990	PR6 PR7 Flexi Site
	MCV - natural moisture content	BS 1377-4:1990	PR6 PR7 Flexi Site
	MCV/moisture content relation	BS 1377-4:1990	PR7
	California Bearing Ratio (CBR) (loads from 0.5 to 27 kN)	BS 1377-4:1990	PR6
	California Bearing Ratio (CBR) (loads from 0.04 to 30kN)	BS 1377-4:1990	PR7
	One-dimensional consolidation properties	BS 1377-5:1990	PR7
	Permeability in a triaxial cell	BS 1377-6:1990	PR7
	Shear strength by direct shear using the large shearbox apparatus	BS 1377-7:1990	PR7
Unconfined compressive strength - load frame method (loads from 0.04 to 30 kN)	BS 1377-7:1990	PR7	
Undrained shear strength - triaxial compression without measurement of pore pressure - cell pressure up to 800kPa (loads from 0.04 to 30 kN)	BS 1377-7:1990	PR7	



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SOILS for civil engineering purposes (cont'd)	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	Flexi Site
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	Site
	In-situ density - core cutter method	BS 1377-9:1990	Flexi Site
	In-situ bulk density - nuclear method - absolute tests - compliance tests	BS 1377-9:1990	Flexi Site
	In-situ moisture density - nuclear method - absolute tests - compliance tests	BS 1377-9:1990	Flexi Site
	Apparent resistivity	BS 1377-9:1990	Site
	Vertical deformation and strength characteristics of soil by the plate loading test (loads from 5.0 to 250 kN)	BS 1377-9:1990	Site
	Equivalent CBR by plate bearing test (loads from 5.0 to 250 kN)	Design Manual for Roads and Bridges: Volume 7: Pavement design and Maintenance - Foundation HD 25/94 & IAN 73/06	Site
	Effective angle of internal friction and effective cohesion of earthworks materials	Specification for Highway Works, HMSO May 2004 Clause 636	PR7
	Dynamic Cone Penetrometer	Documented In-house Method: S3, Issue 3, 08/07/08 and Design Manual for Roads and Bridges, HMSO, February 2006 IAN 73/06	Site
In-situ density - dielectric method	Documented In-house Method: C89, Issue 1, Sept 2010	Site	



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SOILS for civil engineering purposes (cont'd)	In-situ moisture content - dielectric method	Documented In-house Method: C89, Issue 1, Sept 2010	Site
	Undrained shear strength of remoulded cohesive material (loads from 0.3 to 50 kN)	Highway Works, HMSO, November 2006, Clause 633	PR6
	Undrained shear strength of remoulded cohesive material (loads from 0.04 to 30kN)	Specification for Highway Works, TSO, May 2004, Clause 633	PR7
STABILIZED MATERIALS for civil engineering purposes - cement-stabilized and lime-stabilized materials	In-situ bulk density - nuclear method by direct transmission - compliance tests	BS 1924-2:1990	Flexi Site
	In-situ moisture density - nuclear method by back scatter - absolute tests	BS 1924-2:1990	Flexi Site

END