

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0989 Accredited to ISO/IEC 17025:2017	National Laboratory for Technical Innovation a trading name of Tarmac Trading Limited	
	Issue No: 044 Issue date: 26 August 2020	
	Wolverhampton Laboratory Millfields Road Ettingshall Wolverhampton West Midlands WV4 6JP	Contact: Mr M Hyland Tel: +44 (0)7702 634590 E-Mail: martin.hyland@tarmac.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 Wolverhampton Laboratory Millfields Road Ettingshall Wolverhampton West Midlands WV4 6JP Local contact Mr M Hyland	Testing of aggregates, bitumens and bituminous mixtures, concrete and soils	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
All site locations suitable for the activities listed	Sampling of bituminous mixtures	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
AGGREGATES	Aggregate crushing value - particle size 10mm and greater	BS 812:Part 110:1990	A
	Ten per cent fines value - dry - particle size 10mm and greater	BS 812:Part 111:1990	A
	Ten per cent fines value - soaked - particle size 10mm and greater	BS 812:Part 111:1990	A
	Sample reduction using a riffle box	BS EN 932-2:1999	A
	Sample reduction by quartering	BS EN 932-2:1999	A
	Sample reduction to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	A
	Particle size distribution	BS EN 933-1:2012	A
	Flakiness index	BS EN 933-3:2012	A
	Shape index	BS EN 933-4:2008	A
	Flow coefficient of fine aggregates	BS EN 933-6:2014	A
	Shell content - percentage of shells in coarse aggregate	BS EN 933-7:1998	A
	Assessment of fines - methylene blue test	BS EN 933-9:2009 + A1:2013	A
	Assessment of fines - methylene blue value of the 0/0,125 mm fraction	BS EN 933-9:2009 + A1:2013	A
	Assessment of fines - grading of fillers (air jet sieving)	BS EN 933-10:2009	A
	Micro-Deval coefficient	BS EN 1097-1:2011	A
Resistance to fragmentation by the Los Angeles method	BS EN 1097-2:2020	A	



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AGGREGATES (cont'd)	Loose bulk density and voids	BS EN 1097-3:1998	A
	Apparent (bulk) density of filler in kerosene	BS EN 1097-3:1998 Annex A	A
	Water content by drying in a ventilated oven	BS EN 1097-5:2008	A
	Particle density and water absorption - wire-basket method for aggregate particles between 31,5 mm and 63 mm	BS EN 1097-6:2013	A
	Particle density and water absorption - pyknometer method for aggregate particles between 4 mm and 31,5 mm	BS EN 1097-6:2013	A
	Particle density and water absorption - pyknometer method for aggregate particles between 0,063 mm and 4 mm	BS EN 1097-6:2013	A
	Particle density of filler - pyknometer method	BS EN 1097-7:2008	A
	Aggregate abrasion value	BS EN 1097-8:2020	A
	Polished stone value	BS EN 1097-8:2020	A
	Magnesium sulfate test	BS EN 1367-2:2009	A
	Magnesium sulphate soundness	Defence Works Functional Standards – Hot Rolled Asphalt and Coated Macadam for Airfield Pavement Works (1995)	A
	Soundness	PSA - Airfield Pavements Standard Specification Part 3 1979 - Appendix 3.A	A
Soundness of aggregates	PSA Specification for Airfield Works App. 4B 1979	A	



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AGGREGATES (cont'd)	Magnesium sulfate test	Defence Estates Specifications: 12 Appendix A : July 2010 13 Appendix B : August 2009 49 Appendix A : August 2009	A
	Magnesium sulfate test	Defence Infrastructure Organisation Specifications 12 Appendix A : March 2015 13 Appendix A : March 2015 49 Appendix A : March 2015.	A
BITUMINOUS MATERIALS	Needle penetration	BS EN 1426:2015	A
	Softening point - ring and ball method	BS EN 1427:2015	A
	Delta ring and ball test	BS EN 13179-1:2013	A
	Determination of dynamic viscosity of bituminous binder using a rotating spindle apparatus	BS EN 13302: 2018	A
BITUMINOUS MIXTURES for roads and other paved areas	Wheel-tracking rate	BS 598:Part 110:1998	A
	Binder content and grading of mineral aggregate - extraction bottle method: binder by difference, filler directly determined	BS EN 12697-1: 2012 BS EN 12697-2: 2002+A1:2007	A
	Bitumen recovery by rotary evaporator	BS EN 12697-3:2013 + A1 2018	A
	Maximum density	BS EN 12697-5:2018 BSI DD 228:1996	A
	Bulk density	BS EN 12697-6: 2012	A
	Void characteristics	BS EN 12697-8:2018	A



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BITUMINOUS MIXTURES for roads and other paved areas (continued)	Conventional reference density - by impact compactor	BS EN 12697-9:2002	A
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002	A
	Affinity between aggregate and bitumen - rolling bottle method - static method	BS EN 12697-11:2012	A
	Water sensitivity of bituminous specimens - Method A - Method B	BS EN 12697-12: 2018 NFP98-251-1: 2002	A
	Binder drainage	BS EN 12697-18:2017	A
	Wheel tracking (large size device)	BS EN 12697-22:2003 +A1: 2007	A
	Wheel tracking using a small size device and procedure A	BS EN 12697-22:2003	A
	Wheel tracking using a small size device and procedure B in air	BS EN 12697-22:2003	A
	Determination of indirect tensile strength of bituminous specimens	EN 12697-23:2003	A
	Stiffness - test applying indirect tension to cylindrical specimens (IT-CY)	BS EN 12697-26 Annex C:2004	A
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2017	B
Preparation of samples for determining binder content, water content and grading.	BS EN 12697-28:2001	A, B	



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BITUMINOUS MIXTURES for roads and other paved areas (continued)	Determination of the dimensions of a bituminous specimen.	BS EN 12697-29:2002	A
	Specimen preparation by impact compactor	BS EN 12697-30:2018	A
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	A
	Specimen prepared by roller compactor	BS EN 12697-33: 2019	A
	Marshall test Protocol for determining the design binder content of designed HRA surface Course mixtures to BS EN 13108-4	BS EN 12697-34:2012 BS 594987:2010 annex H	A
	Laboratory mixing	BS EN 12697-35:2016	A
	Thickness of a Bituminous Pavement (Destructive method)	BS EN 12697-36 Clause 4.1:2003	A
	In-situ drainability	BS EN 12697-40:2012	B
	Saturation ageing tensile stiffness (SATS) conditioning test.	BS EN 12697-45:2012	A
	Marshall method of design	PSA Specification for Airfield Works App. 4C 1979	A
	Indirect tensile fatigue	DD ABF (June 1995)	A
	Relative hydraulic conductivity of permeable surfacings	DD 229:1996	B
Air void content	Specification for Highway Works, HMSO December 1991 Clause 929	A	



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BITUMINOUS MIXTURES for roads and other paved areas (continued)	Sensitivity to water	BBA Guidelines Document for the Assessment and Certification of Thin Surfacing Systems for Highways - July 2004	A
	Torque bond test	BBA Guidelines Document for the Assessment and Certification of Thin Surfacing Systems for Highways - July 2004	A
CONCRETE - hardened	Compressive strength of cubes - including curing	BS EN 12390-1:2012 BS EN 12390-2:2009(withdrawn) BS EN 12390-3:2009(withdrawn)	A
	Flexural strength	BS EN 12390-5:2009(withdrawn)	A
	Density	BS EN 12390-7:2009(withdrawn)	A
Unbound and Hydraulically Bound Mixtures	Reference density and water content	BS EN 13286-4:2003	A
	Compressive Strength	BS EN 13286-41:2003	A
	Indirect Tensile Strength	BS EN 13286-42:2003	A
	Manufacture of HBM cube test specimens via V-hammer compaction	In accordance with documented in-house method TPM/1/016	A
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377:Part 2:1990	A
	Particle size distribution - wet sieving	BS 1377:Part 2:1990	A
	Particle size distribution - dry sieving	BS 1377:Part 2:1990	A



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SOILS for civil engineering purposes (continued)	Dry density/moisture content relationship (vibrating hammer)	BS 1377:Part 4:1990	A
	California Bearing Ratio (CBR)	BS 1377:Part 4:1990	A
END			