

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>0955</p> <p>Accredited to ISO/IEC 17025:2017</p>	<h3>James Fisher Testing Services Limited</h3> <p>Issue No: 067 Issue date: 20 October 2020</p>	
	<p>Fisher House PO Box 4 Barrow-In-Furnace LA14 1HR</p>	<p>Contact: Mr Ian Twining Tel: +44 (0)1925 286880 Fax: +44 (0)1925 286881 E-Mail: i.twining@james-fisher.co.uk Website: www.james-fisher.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

James Fisher Testing Services Limited is accredited for a flexible scope that enables it to establish site laboratories to conduct the construction materials testing and sampling activities that are indicated in the table below with the location code X. These site laboratories are set up in accordance with the Documented In-House Procedure OP5iso. (NCL = No Current Location)

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<p><b>Address</b> Ruby House 40A Hardwick Grange Warrington WA1 4RF</p> <p><b>Local contact</b> Mr I Twining  Tel: +44 (0)1925-286880 Fax: +44 (0)1925 286881 E-Mail: i.twining@james-fisher.co.uk</p>	<p>Aggregates: Mechanical Tests; Physical Tests Bituminous Mixtures: Physical Tests Concrete: Chemical Tests; Mechanical Tests; Physical Tests Soils: Mechanical Tests; Physical Tests Mortar: Physical Tests</p>	A
<p><b>Address</b> Bruton House Stadium Way Harlow Essex CM19 5FT</p> <p><b>Local contact</b> Mr A Sanz  Tel: +44 (0) 1279 729029 Fax: +44 (0) 1279 416879 E-mail: a.sanz@james-fisher.co.uk</p>	<p>Aggregates: Mechanical Tests; Physical Tests Bituminous Mixtures: Physical Tests Concrete: Mechanical Tests; Physical Tests Soils: Mechanical Tests; Physical Tests</p>	B
<p><b>Address</b> Materials Laboratory Unit D Zone 5 Clonminam Business Park Portlaoise Co. Laoise Eire</p> <p><b>Local contact</b> Mr J Ward  Tel: +00 353 5786 64885 Fax: +00 353 5786 64380 E-Mail: james.ward@james-fisher.co.uk</p>	<p>Aggregates: Mechanical Tests; Physical Tests Concrete: Mechanical Tests; Physical Tests Concrete Blocks: Mechanical and Physical Tests; Soils: Mechanical Tests; Physical Tests</p>	E



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**Site activities performed away from the permanent laboratory locations listed above:**

Location details	Activity	Location code
<p><b>Address</b> Ruby House 40A Hardwick Grange Warrington WA1 6RF</p> <p><b>Local contact</b> Mr I Twining  Tel: +44 (0)1925-286880 Fax: +44 (0)1925 286881 E-Mail: <a href="mailto:i.twining@james-fisher.co.uk">i.twining@james-fisher.co.uk</a></p>	<p>Bituminous Road Surfacing: Physical Tests Concrete: Sampling: Chemical Tests; Non-Destructive Tests Concrete Structures: Non-Destructive Tests Piled Foundations: Non-Destructive Tests Soils: Mechanical Tests; Physical Tests</p>	C
<p><b>Address</b> Bruton House Stadium Way Harlow Essex CM19 5FT</p> <p><b>Local contact</b> Mr A Sanz  Tel: +44 (0) 1279 729029 Fax: +44 (0) 1279 416879 E-mail: <a href="mailto:a.sanz@james-fisher.co.uk">a.sanz@james-fisher.co.uk</a></p>	<p>Soils: Mechanical Tests; Physical Tests Concrete: Sampling; Physical Tests</p>	D
<p><b>Address</b> Materials Laboratory Unit D Zone 5 Clonminam Business Park Portlaoise Co. Laoise Eire</p> <p><b>Local contact</b> Mr J Ward  Tel: +00 353 5786 64885 Fax: +00 353 5786 64380 E-Mail: <a href="mailto:j.ward@testconsult.ie">j.ward@testconsult.ie</a></p>	<p>Aggregates: Sampling Concrete: Sampling; Physical Tests Soils: Mechanical Tests; Physical Tests</p>	F



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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 812-110:1990	B
	Ten per cent fines value - dry - particle size 10mm and greater	BS 812-111:1990	A, B, X
	Ten per cent fines value - soaked - particle size 10mm and greater	BS 812-111:1990	A, B, X
	Moisture content - oven drying method	BS 812-109:1990	B
	Uniformity coefficient (221 2217)	BS 6100:Subsection 2.2.1: 1992 (withdrawn)	A, B
	Sampling stockpiles of fine aggregates by hand	BS EN 932-1:1997	F, X
	Sampling stockpiles of coarse aggregates by hand	BS EN 932-1:1997	F, X
	Sampling from stockpiles	BS EN 932-1:1997	X (NCL)
	Method of reducing laboratory samples; - using a riffle box; - reduction by quartering; - reduction to a test portion of a specified mass within a small tolerance	BS EN 932-2:1999	A, B, E, X
	Particle size distribution - sieving method	BS EN 933-1:2012	A, B, E, X
	Flakiness index	BS EN 933-3:2012	A, B, E, X
	Determination of the percentage crushed and broken surfaces in coarse aggregate particles	BS EN 933-5:1998	B, X
	Assessment of fines - methylene blue test	BS EN 933-9: 2009 + A1:2013	E



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AGGREGATES (cont'd)	Constituent materials in recycled aggregates and recycled concrete aggregates	BS EN 933-11:2009	B, X
	Micro-Deval coefficient	BS EN 1097-1:2011	A, E
	Micro-Deval coefficient	BS EN 1097-1: 2011 Annex A	E
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2010 (withdrawn)	A, B, E, X
	Resistance to fragmentation of aggregates for railway ballast by the Los Angeles test method	BS EN 1097-2: 2010 Annex A (withdrawn)	A, E, X
	Loose bulk density and voids	BS EN 1097-3:1998	X (NCL)
	Water content	BS EN 1097-5:2008	A, B, E, X
	Particle density and water absorption – pyknometer method for aggregate particles between 4 mm and 31.5 mm	BS EN 1097-6:2013 clause 8	E, X
	Particle density and water absorption - pyknometer method for aggregate particles between 0.063 mm and 4 mm	BS EN 1097-6:2013 clause 9	E, X
Magnesium sulphate test	BS EN 1367-2:2009 (not including Annex B and C)	E	
BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2012 (withdrawn)	A
	Particle size distribution	BS EN 12697-2:2015	A
	Maximum density - volumetric procedure	BS EN 12697-5:2018	A, X
	Bulk density - dry - saturated surface dry (SSD) - sealed specimen	BS EN 12697-6:2012 (withdrawn)	A, X



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BITUMINOUS MIXTURES for roads and other paved areas (cont'd)	Air voids content	BS EN 12697-8:2018	A, X
	Conventional refusal density - vibratory compaction	BS EN 12697-9:2002 (withdrawn)	A, X
	Percentage refusal density (PRD) - vibratory compaction	BS EN 12697-9:2002 (withdrawn)	A, X
	Sampling from the material around the augers of the paver	BS EN 12697-27:2019	X (NCL)
	Sampling of laid and compacted materials by coring	BS EN 12697-27:2019	C, X
	Thickness of a bituminous pavement	BS EN 12697-36:2003	A, C
	Laboratory compaction of bituminous mixtures by vibratory compaction	BS EN 12697-32:2019	A, X
CONCRETE BLOCKS	Water absorption due to capillary action	BS EN 772-11:2011	E
	Net and Gross density	BS EN 772-13:2000	E
	Moisture Movement	BS EN 772-14:2002	E
	Net Dimensions	BS EN 772-16:2011	E
	Flatness	BS EN 772-20:2000	E
CONCRETE - fresh	Making cubic specimens for strength tests – including curing	BS EN 12390-2:2019	A, B, C, D, E, F, X
	Making cylinder specimens – including curing	BS EN 12390-2:2019	X (NCL)
	Making beam / prism specimens – including curing	BS EN 12390-2:2019; BS EN 14651:2005 + A1:2007	X (NCL)
	Sampling fresh concrete on site - composite sample	BS EN 12350-1:2019	C, D, F, X



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CONCRETE – fresh (cont'd)	Sampling fresh concrete on site - spot sample	BS EN 12350-1:2019	C, D, F, X
	Slump	BS EN 12350-2:2019	C, D, F, X
	Flow	BS EN 12350-5:2009 (withdrawn)	X (NCL)
	Density	BS EN 12350-6:2009 (withdrawn)	X (NCL)
	Air content – pressure gauge method	BS EN 12350-7:2019	D, X
	Measuring the fibre content in fresh and hardened concrete	BS EN 14721:2005 + A1:2007	X (NCL)
CONCRETE - hardened	Water absorption	BS 1881-122: 2011	B
	Depth of carbonation	BS 1881-201:1986 (withdrawn)	C
	Compressive strength of cubes - including curing - shape and dimension	BS EN 12390-3:2019 BS EN 12390-2:2019 BS EN 12390-1:2012	A, B, E, X
	Flexural strength of test specimens; - including curing; - shape and dimensions	BS EN 12390-5:2019 BS EN 12390-2:2019 BS EN 12390-1:2012	B
	Tensile splitting strength	BS EN 12390-6:2009	B, G, X
	Density	BS EN 12390-7:2019	A, B, E, X
	Cored specimens - sampling	BS EN 12504-1:2019	C, D, X
	Cored specimens - examining and testing in compression	BS EN 12504-1:2019	A, B, E, X
Flexural tensile strength (limit of proportionality (LOP), residual) of metallic fibre concrete	BS EN 14651:2005+A1:2007	B	



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CONCRETE – hardened (cont'd)	Measuring the fibre content in fresh and hardened concrete	BS EN 14721:2005 + A1:2007	X (NCL)
	Chloride ion determination in concrete and mortar	Documented in-house procedure WI No.9	A
CONCRETE - reinforced	Location of reinforcement	BS 1881-204:1988	C
CONCRETE STRUCTURES	Integrity	Documented In-House Method WI 8 issue 3 27/02/18 - sonic logging technique (ultra-sonic propagation time up to 1000 μ sec)	C
PILED FOUNDATIONS	Pile integrity	Documented In-House Method WI 31 issue 427/02/18 – transient dynamic response technique (frequency response <= 5000 Hz mobility response <= 100,000 etc. <= 100,000 e <sup>-9</sup> m/sec/N)	C, D
ROAD PAVEMENT SURFACES	Texture depth – by the sand patch method	BS 598-105:2000 (withdrawn)	X (NCL)
	Irregularities on surfaces of roads, footways and other paved areas using a type 1 transverse straightedge	BS 8420:2003	X (NCL)
	Pavement surface macrotexture depth using a volumetric patch technique	BS EN 13036-1:2010	X (NCL)
	Surface regularity using a rolling straight edge	Specification for Highway Works Series 700 clause 702 (TRRL Supplementary Report 290:1977)	X (NCL)
	In-situ density - nuclear method	Documented In-house method WI No.37 Issue 8 02/12/2019	C, X



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ROAD PAVEMENT SURFACES (cont'd)	Falling Weight Deflectometer (FWD)	Documented In-house Method:WI40, Issue 2, 17/12/2019, based on Design Manual for Roads and Bridges Volume 7, Section 3, Part 2 HD29/08. Calibrated in accordance with Documented In-house Method WI42, Issue 1, 24/04/12 with Indirect verification by TRL	C
ROCK	Slake durability	ASTM D4644-16	E
SOILS for civil engineering purposes	Sampling earthworks materials	Work Instruction : WI-064 Issue2	X (NCL)
	Moisture content - oven drying method	BS 1377-2:1990	A, B, E, X
	Saturation moisture content of chalk	BS 1377-2:1990	B
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A, B, X
	Liquid limit - cone penetrometer - definitive method	BS 1377-2:1990	X (NCL)
	Plastic limit	BS 1377-2:1990	A, B, X
	Plasticity index and liquidity index	BS 1377-2:1990	A, B, X
	Particle size distribution - wet sieving	BS 1377-2:1990	A, B, E, X
	Particle size distribution - dry sieving	BS 1377-2:1990	A, B, E
	Density - immersion in water	BS 1377-2:1990	B
	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A, B, X





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SOILS for civil engineering purposes (cont'd)	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-4:1990	A, B, X
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-4:1990	A, B, E, X
	MCV - natural moisture content	BS 1377-4:1990	A, B, E, X
	MCV/moisture content relationship	BS 1377-4:1990	B, X
	California Bearing Ratio (CBR)	BS 1377-4:1990	A, B
	Chalk crushing value	BS 1377-4:1990	B
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	A, B
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	A, B
	Shear strength – Large shearbox	BS 1377-7:1990	A, B
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	C, D
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	C, D, X
	In-situ-density - core cutter method	BS 1377-9:1990	C, D, X
	In-situ density - nuclear method - compliance tests - comparative tests	BS 1377-9:1990	C, D, X
	Vertical deformation and strength characteristics of soil by the plate loading test	BS 1377-9:1990	C, D, F, X
In-situ California Bearing Ratio (CBR)	BS 1377-9:1990	C, D	



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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 (withdrawn)	C, F, X
	Dynamic cone penetrometer	TRL Project Report PR/INT/227/04	X (NCL)
	Calculation of the CBR value using the dynamic cone penetrometer test	Interim Advice Note (IAN) 73/06 – Design Guidance for Road Pavement Foundations (HD25): 2009 Rev 1 (withdrawn)	X (NCL)
	Uniformity coefficient	NRA Manual of Contract Documents Volume 1, Specification for roadworks, Series 600, Table 6/1, Footnote 5	E, X
	Effective angle of internal friction and effective cohesion	Specification for Highway Works Volume 1 Clause 636 February 2016	A, B
	Horizontal permeability of road drainage layers using the permeability box	Design Manual for Roads and Bridges Volume 4 Section 2 HA41/90: Appendix A.	E
	Standard penetration test: Measurement of the actual energy transmitted to the drive rods	BS EN ISO 22476-3:2005 Annex B	A, C
STABILIZED MATERIALS for civil engineering purposes	Moisture content – oven drying	BS 1924-2:1990 (withdrawn)	X (NCL)
	In-situ density – nuclear method	BS 1924-2:1990 (withdrawn)	X (NCL)
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A, E, X
	Compressive strength of hydraulically bound mixtures	BS EN 13286-41:2003	X (NCL)



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UNBOUND and HYDRAULICALLY BOUND MIXTURES (cont'd)	Manufacture of test specimens (cubes) – including curing	BS EN 13286-51:2004	X (NCL)
END			