


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: 071 Issue date: 22 November 2021</p>	
	<p>Ruby House 40A Hardwick Grange Woolston Warrington Cheshire WA1 4RF</p>	<p>Contact: Mr Phil Thorpe Tel: +44 (0)1925 286880 Fax: +44 (0)1925 286881 E-Mail: p.thorpe@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>Address Ruby House 40A Hardwick Grange Warrington WA1 4RF</p> <p>Local contact Mr P Thorpe Tel: +44 (0)1925-286880 Fax: +44 (0)1925 286881 E-Mail: p.thorpe@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>Address Bruton House Stadium Way Harlow Essex CM19 5FT</p> <p>Local contact Mr P Thorpe Tel: +44 (0) 1279 729029 Fax: +44 (0) 1279 416879 E-mail: p.thorpe@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



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

Location details	Activity	Location code
Address Ruby House 40A Hardwick Grange Warrington WA1 6RF Local contact Mr P Thorpe Tel: +44 (0)1925-286880 Fax: +44 (0)1925 286881 E-Mail: p.thorpe@james-fisher.co.uk	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	C
Address Bruton House Stadium Way Harlow Essex CM19 5FT Local contact Mr P Thorpe Tel: +44 (0) 1279 729029 Fax: +44 (0) 1279 416879 E-mail: p.thorpe@james-fisher.co.uk	Soils: Mechanical Tests; Physical Tests Concrete: Sampling; Physical Tests	D



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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	Ten per cent fines value - dry - particle size 10mm and greater	BS 812-111:1990	B, X
	Ten per cent fines value - soaked - particle size 10mm and greater	BS 812-111:1990	B, X
	Uniformity coefficient (221 2217)	BS 6100:Subsection 2.2.1: 1992 (withdrawn)	A, B
	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, X
	Particle size distribution - sieving method	BS EN 933-1:2012	A, B, X
	Flakiness index	BS EN 933-3:2012	A, B, X
	Determination of the percentage crushed and broken surfaces in coarse aggregate particles	BS EN 933-5:1998	B, X
	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
	Resistance to fragmentation by the Los Angeles test method	BS EN 1097-2:2020	A, B, X
Resistance to fragmentation of aggregates for railway ballast by the Los Angeles test method	BS EN 1097-2: 2020 Annex A	A, B, X	
Water content	BS EN 1097-5:2008	A, B, X	



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BITUMINOUS MIXTURES for roads and other paved areas	Soluble binder content by difference, using bottle rotation machine and pressure filter	BS EN 12697-1:2020	A
	Particle size distribution	BS EN 12697-2:2015 + A1:2019	A
	Maximum density - volumetric procedure	BS EN 12697-5:2018	A, X
	Bulk density - dry	BS EN 12697-6:2020	A, X
	- saturated surface dry (SSD)		
	- sealed specimen		
	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 of laid and compacted materials by coring	BS EN 12697-27:2017	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 - fresh	Making cubic specimens for strength tests – including curing	BS EN 12390-2:2019	A, B, C, D, X
	Sampling fresh concrete on site - composite sample	BS EN 12350-1:2019	C, D, X
	Sampling fresh concrete on site - spot sample	BS EN 12350-1:2019	C, D, X
	Slump	BS EN 12350-2:2019	C, D, X
	Air content – pressure gauge method	BS EN 12350-7:2019	D, X



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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, 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, X
	Density	BS EN 12390-7:2019	A, B, 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, X
	Flexural tensile strength (limit of proportionality (LOP), residual) of metallic fibre concrete	BS EN 14651:2005+A1:2007	B
	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



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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 ⁻⁹ m/sec/N)	C, D
ROAD PAVEMENT SURFACES	In-situ density - nuclear method	Documented In-house method WI No.37 Issue 8 02/12/2019	C, X
	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
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, X
	Saturation moisture content of chalk	BS 1377-2:1990	B
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A, B, X
	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, X
	Particle size distribution - dry sieving	BS 1377-2:1990	A, B
	Density - immersion in water	BS 1377-2:1990	B



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SOILS for civil engineering purposes (cont'd)	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-4:1990	A, B, X
	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, X
	MCV - natural moisture content	BS 1377-4:1990	A, B, X
	MCV/moisture content relationship	BS 1377-4:1990	B, X
	California Bearing Ratio (CBR)	BS 1377-4:1990	A, 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	B
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	C, D, X
	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, 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 nominal CBR value using the plate bearing test	DMRB, IAN 73/06 – Design of Pavement Foundations, Rev 1:2009	C, X
	Dynamic cone penetrometer	DIHM WI 73 Issue 1 October 2020	C, D, X
	Calculation of nominal CBR value using the Dynamic Cone Penetrometer test (DCP)	DMRB, IAN 73/06 – Design of Road Pavement Foundations Rev 1:2009	C, D, X
	Calculation of nominal CBR value using the Dynamic Cone Penetrometer test (DCP)	DMRB, CS 229 Data for Pavement Assessment Rev.0: 2020	C, D, X
	Effective angle of internal friction and effective cohesion	Specification for Highway Works Volume 1 Clause 636 February 2016	B
	Standard penetration test: Measurement of the actual energy transmitted to the drive rods	BS EN ISO 22476-3:2005 Annex B	A, C
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2003	A, X
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	A, B, X
	Particle size distribution – wet sieving	BS EN ISO 17892-4:2016	A, B, X
	Liquid limit – Fall Cone (4 point method)	BS EN ISO 17892-12:2018	A, B, X
	Plastic limit	BS EN ISO 17892-12:2018	A, B, X
	Plasticity index	BS EN ISO 17892-12:2018	A, B, X
END			