Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

<table>
<tr>
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UKAS CALIBRATION

0611

**Accredited to
ISO/IEC 17025:2017**

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Cooper Research Technology Ltd

Issue No: 036   **Issue date:** 24 January 2025

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Unit C
Albert Court
Peasehill Road
Ripley
Derbyshire
DE5 3AQ

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Contact: Mr C Kohut

Tel: +44 (0)1773 512174

Fax: +44 (0)1773 512175

E-Mail: carl.kohut@cooper.co.uk

Website: www.cooper.co.uk

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Calibration performed by the Organisations at the locations specified below

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Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Unit C Albert Court Peasehill Road Ripley Derbyshire DE5 3AQ	**Local contact** Mr C Kohut Tel: +44 (0)1773 512174 Fax: +44 (0)1773 512175 E-Mail: carl.kohut@cooper.co.uk	Force Dimensional	A

Site activities performed away from the locations listed above:

Location details		Activity	Location code
At customers' premises	As above	Force Dimensional	B

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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k=2)	Remarks	Location Code
BITUMINOUS MIXTURE TESTING MACHINES			NOTES	
Small Wheeltrackers (See Note 1)			1　Accreditation is limited to machines manufactured by Cooper Research Technology Ltd.	A & B
Wheel displacement (rut depth)	0 mm to 40 mm	0.055 mm		
Wheel load	500 N to 700 N	3.5 N		
Wheel diameter	150 mm to 250 mm	1.0 mm	BS 598:PART 110:1998 And BS EN 12697 22:2020	
Tyre width	40 mm to 60 mm	0.30 mm		
Tyre thickness	0 mm to 20 mm	0.50 mm		
Tyre hardness	70 IRHD to 90 IRHD	2.4 IRHD		
Bearing play	0 mm to 1 mm	0.016 mm		
Tracking frequency	20 cycles per minute to 28 cycles per minute	0.20 cycles per minute		
Track length	220 mm to 240 mm	1.1 mm		
Centre measurement	0 mm to 20 mm	2.0 mm		
Large Wheeltrackers (See Note 1)			BS EN 12697-22:2020	A & B
Wheel load	At 5000 N	27 N		
Tyre contact width	70 mm to 90 mm	1.0 mm		
Tracking frequency	50 to 70 cycles per minute	0.10 cycles per minute over 1 minute 0.020 cycles per minute over 5 minutes		
Displacement transducer/depth gauge	0 mm to 25 mm	0.050 mm		
Track length	400 mm to 420 mm	1.0 mm		
Centrality of wheel track in mould	0 mm to 20 mm	1.0 mm		
Wheel angle of skew	-3 degrees to 3 degrees	0.040 degrees		
Large roller compactor fitted with pneumatic tyres (See Note 1)			BS EN 12697-33:2019	A & B
Wheel load	1000 N to 5000 N	1.9 %		
Wheel velocity	200 mm/s to 500 mm/s	1.1 %		
Centrality of wheel track in mould	0 mm to 20 mm	1.0 mm		
Nottingham asphalt testers and Versa pro (See Note 1)			**BS EN 12697-24:2004, BS EN 12697-25:2005, BS EN 12697-26:2004, DD226:1996 and DD213:1993**	A & B
ITSM LVDTs	0 µm to 100 µm	0.66 µm		
RLAT LVDTs	0 mm to 10 mm	0.0057 mm		
ITFT LVDTs	0 mm to 2 mm	0.0038 mm		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k=2)	Remarks	Location Code
Nottingham asphalt testers and Versa pro (See Note 1) (cont'd)			BS EN 12697-24:2004, BS EN 12697-25:2005, BS EN 12697-26:2004, DD226:1996 and DD213:1993	A & B
Load rise time	115 ms to 135 ms	1.9 ms		
Load pulse & rest times	995 ms to 1005 ms	2.5 ms		
Load area percent	95 % to 105 %	1.4 %		
NAT Load cell	70 N to 450 N 0.45 kN to 4.5 kN 4.5 kN to 20 kN	1.0 % 0.69 % 0.55 %		
Duriez testing machines (See Note 1)			NF P 98-251-1:2002 (Clause 6.2) And BS EN 12697-12:2018 (Clauses 6.1.1 and 6.2.3)	A & B
Press load	60 kN to 180 kN	0.34 %		
Press rise time (free speed)	At 60 mm per minute	1.1 %		

END

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Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand.
Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation Q[a, b] stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$