

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0611</p> <p>Accredited to ISO/IEC 17025:2005</p>	Cooper Research Technology Ltd Issue No: 021 Issue date: 17 April 2012	
	Unit 1 Albert Court Peasehill Road Ripley Derbyshire DE5 3AQ	Contact: Mr A B Cooper Tel: +44 (0)1773 512174 Fax: +44 (0)1773 512175 E-Mail: calibration@cooper.co.uk Website: www.cooper.co.uk
Calibration performed by the Organisations at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Unit 1 Albert Court Peasehill Road Ripley Derbyshire DE5 3AQ Local contact Mr A B Cooper Tel: +44 (0)1773 512174 Fax: +44 (0)1773 512175 E-Mail: calibration@cooper.co.uk	Force Dimensional Temperature	A A A

Site activities performed away from the locations listed above:

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



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code
BITUMINOUS MIXTURE TESTING MACHINES				
Small Wheeltrackers (See Note 1)	BS 598:PART 110:1998 and BS EN 12697-22:2003		NOTES 1 Accreditation is limited to machines manufactured by Cooper Research Technology Ltd.	A & B
Wheel displacement (rut depth)	0 mm to 20 mm	0.055 mm		
Wheel load	500 N to 700 N	3.5 N		
Wheel diameter	150 mm to 250 mm	1.0 mm		
Tyre width	40 mm to 60 mm	0.30 mm		
Tyre thickness	0 mm to 20 mm	0.50 mm		
Tyre hardness	70 IHRD to 90 IHRD	2.2 IRHD		
Bearing play	0 mm to 1 mm	0.015 mm		
Tracking frequency	20 cycles per minute to 28] cycles per minute	0.10 cycles per minute over 1 minute 0.020 cycles per minute over 5 minutes		
Track length	220 mm to 240 mm	1.1 mm		
Centre measurement	0 mm to 20 mm	5.0 mm		
Large Wheeltrackers (See Note 1)	BS EN 12697-22:2003			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	0.013 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 12697-33:2003			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 (See Note 1)				A & B
ITSM LVDTs	0 µm to 100 µm	0.54 µm		
RLAT LVDTs	0 mm to 10 mm	0.0056 mm		
ITFT LVDTs	0 mm to 2 mm	0.0038 mm		



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Nottingham asphalt testers (See Note 1) (cont'd)				A & B
Load rise time	115 ms to 135 ms	1.0 ms		
Load pulse & rest times	995 ms to 1005 ms	2.5 ms		
Load area percent	95 % to 105 %	1.7 %		
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 12697-12:2008 (Clauses 5.2.1 and 6.2.1.4)			A & B
Press load	At 60 kN At 180 kN	0.31 % 0.27 %		
Press rise time (free speed)	At 60 mm per minute	1.1 %		
Temperature Digital indicators with probes (Thermocouple or Resistance)	- 25 °C to 150 °C	0.11 °C	Probes with suitable length and diameter	A & B
END				