Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

0419

Accredited to ISO/IEC 17025:2017

Impact Test Equipment Ltd

Issue No: 045 **Issue date**: 21 February 2024

Calibration Services Division
Building 21
Stevenston Industrial Estate
Stevenston
Ayrshire
KA20 3LR

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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 Calibration Services Division Building 21 Stevenston Industrial Estate Stevenston Ayrshire KA20 3LR **Local contact** Mr T Hawkins	Force Dimensional	P

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer's sites or premises The customer's sites or premises must be suitable for the nature of the particular calibrations undertaken and will be subject of contract review arrangements between the laboratory and the customer	Force Dimensional	S

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2))	Remarks	Location Code
FORCE				
UNIVERSALS TESTING MACHINES			Note Calibration also include the alignment and restraint of the upper machine platen required by BS EN 12390-4:2019 & BS 1881:Part 115 1986 (withdrawn)	S
Calibration of the force measuring system by force proving instruments in Compression	0.10 kN to 3000 kN for Class 1, 2 and 3 machines to BS EN ISO 7500-1:2018	0.38 %		
CONCRETE CUBE TESTING MACHINES				S
Calibration of the force measuring system by force proving instruments in compression	0.10 kN to 3000 kN for Class 1, 2 and 3 machines to BS EN ISO 7500-1:2018 See note	0.38 %		
Rate of application of Force (Pacer Rate)	As BS EN 12390-4:2019 & BS 1881:Part 115:1986-(withdrawn) 3 kN/min to 1300 kN/min	2.0 %		
Flatness of Platens and Spacing Blocks	As BS EN 12390-4:2019 & BS 1881:Part 115:1986 (withdrawn) 40 mm to 300 mm	0.015 mm		
FORCE MEASURING DEVICES				S & P
Calibration of force measuring devices used in soils testing machines in compression	As BS 1377:Part1:2016 0.1 kN to 100 kN	0.53 %		
Calibration of load gauges for plate bearing	1 kN to 750 kN	0.53 %		

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Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2))	Remarks	Location Code
DIMENSIONAL				
Test Sieves:				
Plate type	4 mm to 125 mm	0.030 mm	As BS ISO 3310-2:2013 using direct measurement	P
Woven wire type	0.02 mm to 4 mm	0.0027 mm	As BS ISO 3310-1:2016 & ASTM E11-22 using optical measurement	
Woven wire type	4 mm to 125 mm	0.030 mm	As BS ISO 3310-1:2016 & ASTM E11-20 using direct measurement	
Cube moulds for concrete (Specific values)	100 mm & 150 mm	Length 0.054 mm Squareness 0.018 mm Flatness 0.015 mm	By comparison to reference instruments As BS EN 12390-1:2021	S & P
END				

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: $Q[a, b] = [a^2 + b^2]^{1/2}$