


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0224</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3 style="margin: 0;">Aspland Gauge Co Ltd</h3> <p style="margin: 0;">Issue No: 021 Issue date: 08 June 2009</p>	
	<p>Broadway Industrial Estate Dukinfield Road Hyde Cheshire SK14 4QF</p>	<p>Contact: Dr J Freear Tel: +44 (0)161 368 3432 Fax: +44 (0)161 367 8426 E-Mail: aspland@btinternet.com Website: www.aspland.co.uk</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Address</td> <td style="width: 50%;">Local contact</td> </tr> <tr> <td>Broadway Industrial Estate Dukinfield Road Hyde Cheshire SK14 4QF</td> <td>Dr J Freear</td> </tr> </table>	Address	Local contact	Broadway Industrial Estate Dukinfield Road Hyde Cheshire SK14 4QF	Dr J Freear	Dimensional	A
Address	Local contact					
Broadway Industrial Estate Dukinfield Road Hyde Cheshire SK14 4QF	Dr J Freear					

Site activities performed away from the locations listed above:

Location details	Activity	Location code		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">At customers premises</td> <td style="width: 50%;">Dr J Freear</td> </tr> </table>	At customers premises	Dr J Freear	Dimensional	B
At customers premises	Dr J Freear			



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code																			
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED																							
LENGTH			NOTES																				
Gauge blocks Inch (Steel)	As BS 4311:Parts 1 & 3:1993 Up to 0.4 in Above 0.4 in up to 1 in 2 in 3 in 4 in	<table border="0"> <tr> <td><u>C</u></td> <td><u>D</u></td> <td><u>E</u></td> <td rowspan="6">} μ in</td> </tr> <tr> <td>3</td> <td>4</td> <td>6</td> </tr> <tr> <td>4</td> <td>5</td> <td>8</td> </tr> <tr> <td>5</td> <td>7</td> <td>10</td> </tr> <tr> <td>6</td> <td>8</td> <td>12</td> </tr> <tr> <td>7</td> <td>10</td> <td>14</td> </tr> </table>	<u>C</u>	<u>D</u>	<u>E</u>	} μ in	3	4	6	4	5	8	5	7	10	6	8	12	7	10	14	Class C uncertainties apply to the measurement of length of gauges by comparison with grade K standards of length of a similar material. Class C uncertainties apply to grade 0, 1 and 2 gauges to BS EN ISO 3650:1999 and represent the best capability for all grades of used gauges to BS 4311: Part 3:1993.	A
<u>C</u>	<u>D</u>	<u>E</u>	} μ in																				
3	4	6																					
4	5	8																					
5	7	10																					
6	8	12																					
7	10	14																					
Millimetre (Steel)	As BS 4311:Parts 1 & 3:1993 Up to 10 Above 10 up to 25 30, 40, 50 60, 70, 75 80, 90, 100	<table border="0"> <tr> <td><u>C</u></td> <td><u>D</u></td> <td><u>E</u></td> </tr> <tr> <td>.08</td> <td>.10</td> <td>.15</td> </tr> <tr> <td>.10</td> <td>.13</td> <td>.20</td> </tr> <tr> <td>.12</td> <td>.17</td> <td>.25</td> </tr> <tr> <td>.15</td> <td>.21</td> <td>.30</td> </tr> <tr> <td>.18</td> <td>.25</td> <td>.35</td> </tr> </table>	<u>C</u>	<u>D</u>	<u>E</u>	.08	.10	.15	.10	.13	.20	.12	.17	.25	.15	.21	.30	.18	.25	.35			
<u>C</u>	<u>D</u>	<u>E</u>																					
.08	.10	.15																					
.10	.13	.20																					
.12	.17	.25																					
.15	.21	.30																					
.18	.25	.35																					
Plain plug gauges (parallel) cylindrical setting standards and rollers	From 1 up to 50 diameter Above 50 up to 100 100 up to 150 150 up to 200	<table border="0"> <tr> <td>0.8</td> <td rowspan="4">} on diameter</td> </tr> <tr> <td>1</td> </tr> <tr> <td>1.5</td> </tr> <tr> <td>2</td> </tr> </table>	0.8	} on diameter	1	1.5	2	Class D and E uncertainties are the maximum applicable to the measurement of length of grade 3 and 4 gauges respectively to BS 4311: Part 3:1993, by comparison with grade K standards of length of a similar material. Class D uncertainties also represent the best capability for the measurement of length of tungsten carbide gauges by comparison with grade K standards of length of a dissimilar material.	A														
0.8	} on diameter																						
1																							
1.5																							
2																							
Plain ring gauges (parallel) and setting standards	From 2 up to 50 diameter Above 50 up to 100 100 up to 200	<table border="0"> <tr> <td>1</td> <td rowspan="3">} on diameter</td> </tr> <tr> <td>1.6</td> </tr> <tr> <td>2.5</td> </tr> </table>	1	} on diameter	1.6	2.5		A															
1	} on diameter																						
1.6																							
2.5																							
Vee blocks	BS 3731:1987 up to 150	Dependent on size and grade From 2.5 up to 5		A																			
Length gauge, flat and spherical ended (excluding length bars)	Up to 1000	1 + (8 x length in m)		A																			
Thread measuring cylinders	BS 5590:1978 and specials	0.5		A																			
Plain gap gauges (parallel)	BS 969:2008 From 2 up to 100 Above 100 up to 200 200 up to 300	<table border="0"> <tr> <td>3</td> </tr> <tr> <td>5</td> </tr> <tr> <td>8</td> </tr> </table>	3	5	8	1. All calibrations must be carried out in accordance with procedures agreed by UKAS.	A																
3																							
5																							
8																							
Feeler Gauges	BS 957:Part 1:2008	3		A																			
Parallels	BS 906:Part 1:1972 up to 50 x 100 x 400	Dependent on size and grade From 1.5 up to 5		A																			



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Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks	Location Code	
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED					
LENGTH (cont'd)			NOTES (cont'd)		
Receiver, position and profile gauges	Up to 600 x 600 x 300	Length and diameter = 3 + (20 x length in m) Angle = 1 minute of arc Roundness = 3 on radius	2. In addition to specified items, similar items, including parts of measuring instruments and machines, may be calibrated (See Note 1) to the uncertainties stated. Where the item or part calibrated is of lower quality due to wear, errors in geometry or form, poor surface texture, or where any other factors adversely affect measurement capability, greater uncertainties must be quoted. 3. The uncertainty quoted is for the departure from flatness, straightness, parallelism, or squareness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration.	A	
Rule – steel	Up to 1000 to BS 4372:1968 Above 1000 up to 2000	5 + (50 x length in m) 10 + (50 x length in m)		A	
ANGLE				A	
Squares				A	
Blade type	BS 939:2007 up to 300 Above 300 up to 600 600 up to 1000	3 5 9		On squareness See Note 3	
Cylindrical	BS 939:2007 up to 300 Above 300 up to 600	2 4			
Block	BS 939:2007 up to 300 Above 300 up to 600	3 5			
Sine bars and tables	BS 3064:1978 and up to 500 length	Linear dimensions 1 + (10 x length in m) Overall performance 3 seconds of arc			A
Sine centres	Up to 500 length or between centres	Linear dimensions 1 + (10 x length in m) Overall performance 5 seconds of arc			A
Compound sine tables	With tables or equivalent up to 500 length				A
Right angle and box angle plates	BS 5535:1978	Squareness: 3 + (1 per 100 mm) Parallelism 1 + (1 per 100 mm) [See Note 3]		A	
Clinometers	Up to 45 degrees	10 seconds of arc or greater dependent on sensitivity		A	



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FORM				
Surface plates Granite] Cast iron]	BS 817:2008	1.5 + (0.8 x diagonal in m) See Note 3		A, B
Straightedges Cast iron] Steel] Granite]	BS 5204:Part 1:1975 BS 5204:Part 2:1977] 1 + (2 x length in m) See Note 3		A, B
MEASURING INSTRUMENTS AND MACHINES				
Micrometers External Internal Depth]	BS 870:2008 and above] BS 959:2008 BS 6468:2008]	Heads 2 between any two points Setting and extension rods 1 + (8 x length in m)		A
Micrometers Height Setting	Up to 300	3		A
Riser blocks for above item	150 300	2.5 5		A
Bench micrometer		Overall performance 2.0		A
Vernier caliper, height and depth gauges	BS 887:2008 and BS 1643:2008	Overall performance 10 + (30 x length in m)		A
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981	1.0		A
Comparators (external)	BS 1054:1975 up to 10000 magnifications	1% of range Minimum 0.2		A
Electronic height gauges	Up to 1000	1 + (5 x length in m)		A, B
Bore micrometer (three point)	Up to 150 diameter	overall performance 5.0		A
Bevel protractors	BS 1685:2008	1 min or arc + 1 vernier division		A
Spirit levels	BS 958:1968 and BS 3509:1962] Mean sensitivity: 10% of nominal] Minimum 0.5 seconds of arc		A
Electronic levels				A
Micrometer heads	BS 1734:1951	1.0		A
END				