

Staff Serial No:213
Staff Owner: Landgate

Length: 4 metres
Material: Fibreglass

Test No: Test 2-213
Test Date: 17/03/2020
Observer: V.Ung
Checked by:
Signature:
Date:

Location:Victor Road, Darlington
Laboratory:Boya
Audit Test: Test 47:Boya
Audit Date : 17/03/2020
Average Observed Temperature24.6 degrees Celsius
Level: Leica/LS15/702272

Correction Factor: 0.99992 At 25.0 degrees Celsius (Correction Factor is temperature dependent).

Graduation Uncertainty: 0.00017 metres at 95% confidence level

Set	Pins	Staff Readings		Known Height Difference (metres)	Measured Height Difference (metres)	Corrected Difference (metres)
		From (metres)	To (metres)			
1	1-2	0.07103	0.16183	0.09084	0.09080	0.00004
1	2-3	0.16183	0.32585	0.16401	0.16402	-0.00001
1	3-4	0.32585	0.47193	0.14615	0.14608	0.00007
1	4-5	0.47193	0.68493	0.21305	0.21300	0.00005
1	5-6	0.68493	0.87096	0.18609	0.18603	0.00006
1	6-7	0.87096	1.07069	0.19975	0.19973	0.00002
1	7-8	1.07069	1.27571	0.20498	0.20502	-0.00004
1	8-9	1.27571	1.52278	0.24691	0.24707	-0.00016
1	9-10	1.52278	1.79054	0.26761	0.26776	-0.00015
1	10-11	1.79054	2.12359	0.33313	0.33305	0.00008
1	11-12	2.12359	2.38747	0.26384	0.26388	-0.00004
1	12-13	2.38747	2.51329	0.12582	0.12582	0.00000
1	13-14	2.51329	2.64309	0.12978	0.12980	-0.00002
1	14-15	2.64309	2.87172	0.22857	0.22863	-0.00006
1	15-16	2.87172	3.05426	0.18243	0.18254	-0.00011
1	16-17	3.05426	3.20600	0.15183	0.15174	0.00009
1	17-18	3.20600	3.35948	0.15330	0.15348	-0.00018
1	18-19	3.35948	3.51656	0.15720	0.15708	0.00012
1	19-20	3.51656	3.66526	0.14863	0.14870	-0.00007
1	20-21	3.66526	3.87495	0.20969	0.20969	0.00000

Staff Serial No:213
Staff Owner: Landgate

Length: 4 metres
Material: Fibreglass

Test No: Test 2-213
Test Date: 17/03/2020
Observer: V.Ung
Checked by:
Signature:
Date:

Location:Victor Road, Darlington
Laboratory:Boya
Audit Test: Test 47:Boya
Audit Date : 17/03/2020
Average Observed Temperature24.6 degrees Celsius
Level: Leica/LS15/702272

Correction Factor = 0.99991960 (1+(0.00001000 (Temperature - 24.6)))

Correction Factor = 1.00000 when the temperature is 32.7 degrees Celsius

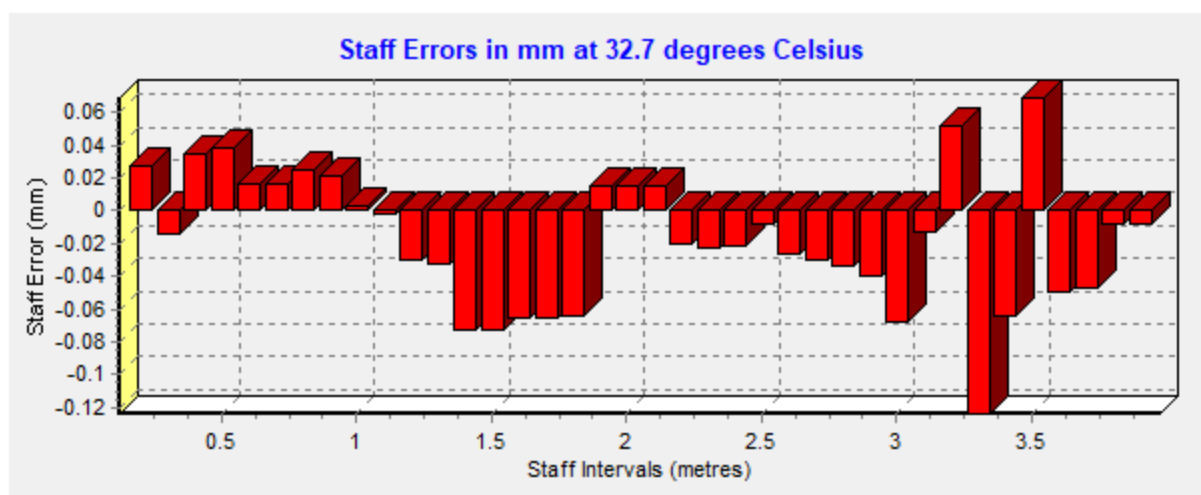
Temperature	Correction Factor	Correction/Metre (mm)
0	0. 99967	- 0. 33
2	0. 99969	- 0. 31
4	0. 99971	- 0. 29
6	0. 99973	- 0. 27
8	0. 99975	- 0. 25
10	0. 99977	- 0. 23
12	0. 99979	- 0. 21
14	0. 99981	- 0. 19
16	0. 99983	- 0. 17
18	0. 99985	- 0. 15
20	0. 99987	- 0. 13
22	0. 99989	- 0. 11
24	0. 99991	- 0. 09
26	0. 99993	- 0. 07
28	0. 99995	- 0. 05
30	0. 99997	- 0. 03
32	0. 99999	- 0. 01
34	1. 00001	0. 01
36	1. 00003	0. 03
38	1. 00005	0. 05
40	1. 00007	0. 07

Staff Serial No:213
Staff Owner: Landgate

Length: 4 metres
Material: Fibreglass

Test No: Test 2-213
Test Date: 17/03/2020
Observer: V.Ung

Location:Victor Road, Darlington
Laboratory: Boya
Audit Test: Test 47:Boya
Audit Date: 17/03/2020
Average Observed Temperature24.6degrees Celsius



From (metres)	To (metres)	Error (mm)	Corrected Interval (metres)
0. 100	0. 200	0. 03	0. 10003
0. 200	0. 300	- 0. 01	0. 09999
0. 300	0. 400	0. 04	0. 10004
0. 400	0. 500	0. 04	0. 10004
0. 500	0. 600	0. 02	0. 10002
0. 600	0. 700	0. 02	0. 10002
0. 700	0. 800	0. 02	0. 10002
0. 800	0. 900	0. 02	0. 10002
0. 900	1. 000	0. 00	0. 10000
1. 000	1. 100	0. 00	0. 10000
1. 100	1. 200	- 0. 03	0. 09997
1. 200	1. 300	- 0. 03	0. 09997
1. 300	1. 400	- 0. 07	0. 09993
1. 400	1. 500	- 0. 07	0. 09993

From (metres)	To (metres)	Error (mm)	Corrected Interval (metres)
1. 500	1. 600	- 0. 07	0. 09993
1. 600	1. 700	- 0. 07	0. 09993
1. 700	1. 800	- 0. 06	0. 09994
1. 800	1. 900	0. 02	0. 10002
1. 900	2. 000	0. 02	0. 10002
2. 000	2. 100	0. 02	0. 10002
2. 100	2. 200	- 0. 02	0. 09998
2. 200	2. 300	- 0. 02	0. 09998
2. 300	2. 400	- 0. 02	0. 09998
2. 400	2. 500	- 0. 01	0. 09999
2. 500	2. 600	- 0. 03	0. 09997
2. 600	2. 700	- 0. 03	0. 09997
2. 700	2. 800	- 0. 03	0. 09997
2. 800	2. 900	- 0. 04	0. 09996
2. 900	3. 000	- 0. 07	0. 09993
3. 000	3. 100	- 0. 01	0. 09999
3. 100	3. 200	0. 05	0. 10005
3. 200	3. 300	- 0. 12	0. 09988
3. 300	3. 400	- 0. 06	0. 09994
3. 400	3. 500	0. 07	0. 10007
3. 500	3. 600	- 0. 05	0. 09995
3. 600	3. 700	- 0. 05	0. 09995
3. 700	3. 800	- 0. 01	0. 09999
3. 800	3. 900	- 0. 01	0. 09999