

Staff Serial No:222
Staff Owner: Landgate

Length: 4 metres
Material: Fibreglass

Test No: Test 4-222
Test Date: 17/03/2020
Observer: B.Hellmund
Checked by:
Signature:
Date:

Location:Victor Road, Darlington
Laboratory:Boya
Audit Test: Test 47:Boya
Audit Date : 17/03/2020
Average Observed Temperature23.3 degrees Celsius
Level: Leica/LS15/702272

Correction Factor: 1.00003 At 25.0 degrees Celsius (Correction Factor is temperature dependent).

Graduation Uncertainty: 0.00015 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	0.07113	0.16198	0.09084	0.09085	-0.00001
1	2-3	0.16198	0.32605	0.16401	0.16407	-0.00006
1	3-4	0.32605	0.47225	0.14615	0.14620	-0.00005
1	4-5	0.47225	0.68530	0.21305	0.21305	0.00000
1	5-6	0.68530	0.87131	0.18609	0.18601	0.00008
1	6-7	0.87131	1.07100	0.19975	0.19969	0.00006
1	7-8	1.07100	1.27599	0.20498	0.20499	-0.00001
1	8-9	1.27599	1.52279	0.24691	0.24680	0.00011
1	9-10	1.52279	1.79033	0.26761	0.26754	0.00007
1	10-11	1.79033	2.12344	0.33313	0.33311	0.00002
1	11-12	2.12344	2.38746	0.26384	0.26402	-0.00018
1	12-13	2.38746	2.51330	0.12582	0.12584	-0.00002
1	13-14	2.51330	2.64306	0.12978	0.12976	0.00002
1	14-15	2.64306	2.87145	0.22857	0.22839	0.00018
1	15-16	2.87145	3.05390	0.18243	0.18245	-0.00002
1	16-17	3.05390	3.20586	0.15183	0.15196	-0.00013
1	17-18	3.20586	3.35918	0.15330	0.15332	-0.00002
1	18-19	3.35918	3.51635	0.15720	0.15717	0.00003
1	19-20	3.51635	3.66500	0.14863	0.14865	-0.00002
1	20-21	3.66500	3.87468	0.20969	0.20968	0.00001

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Correction Factor = 1.00001687 (1+(0.00001000 (Temperature - 23.3)))

Correction Factor = 1.00000 when the temperature is 21.6 degrees Celsius

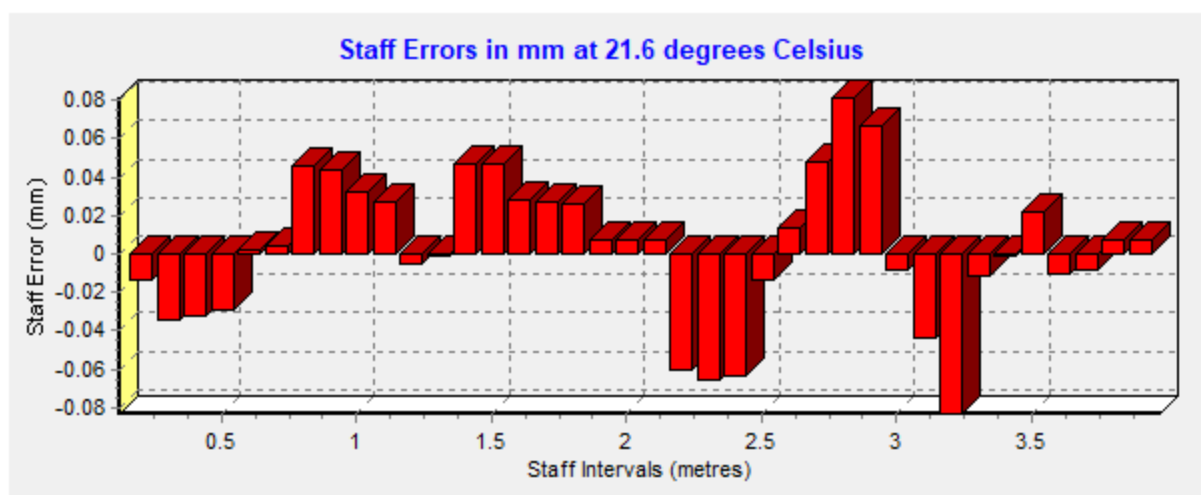
Temperature	Correction Factor	Correction/Metre (mm)
0	0. 99978	- 0. 22
2	0. 99980	- 0. 20
4	0. 99982	- 0. 18
6	0. 99984	- 0. 16
8	0. 99986	- 0. 14
10	0. 99988	- 0. 12
12	0. 99990	- 0. 10
14	0. 99992	- 0. 08
16	0. 99994	- 0. 06
18	0. 99996	- 0. 04
20	0. 99998	- 0. 02
22	1. 00000	0. 00
24	1. 00002	0. 02
26	1. 00004	0. 04
28	1. 00006	0. 06
30	1. 00008	0. 08
32	1. 00010	0. 10
34	1. 00012	0. 12
36	1. 00014	0. 14
38	1. 00016	0. 16
40	1. 00018	0. 18

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Audit Test: Test 47:Boya
Audit Date: 17/03/2020
Average Observed Temperature23.3degrees Celsius



From (metres)	To (metres)	Error (mm)	Corrected Interval (metres)
0. 100	0. 200	- 0. 01	0. 09999
0. 200	0. 300	- 0. 03	0. 09997
0. 300	0. 400	- 0. 03	0. 09997
0. 400	0. 500	- 0. 03	0. 09997
0. 500	0. 600	0. 00	0. 10000
0. 600	0. 700	0. 00	0. 10000
0. 700	0. 800	0. 05	0. 10005
0. 800	0. 900	0. 04	0. 10004
0. 900	1. 000	0. 03	0. 10003
1. 000	1. 100	0. 03	0. 10003
1. 100	1. 200	0. 00	0. 10000
1. 200	1. 300	0. 00	0. 10000
1. 300	1. 400	0. 05	0. 10005
1. 400	1. 500	0. 05	0. 10005

From (metres)	To (metres)	Error (mm)	Corrected Interval (metres)
1. 500	1. 600	0. 03	0. 10003
1. 600	1. 700	0. 03	0. 10003
1. 700	1. 800	0. 03	0. 10003
1. 800	1. 900	0. 01	0. 10001
1. 900	2. 000	0. 01	0. 10001
2. 000	2. 100	0. 01	0. 10001
2. 100	2. 200	- 0. 06	0. 09994
2. 200	2. 300	- 0. 07	0. 09993
2. 300	2. 400	- 0. 06	0. 09994
2. 400	2. 500	- 0. 01	0. 09999
2. 500	2. 600	0. 01	0. 10001
2. 600	2. 700	0. 05	0. 10005
2. 700	2. 800	0. 08	0. 10008
2. 800	2. 900	0. 07	0. 10007
2. 900	3. 000	- 0. 01	0. 09999
3. 000	3. 100	- 0. 04	0. 09996
3. 100	3. 200	- 0. 08	0. 09992
3. 200	3. 300	- 0. 01	0. 09999
3. 300	3. 400	0. 00	0. 10000
3. 400	3. 500	0. 02	0. 10002
3. 500	3. 600	- 0. 01	0. 09999
3. 600	3. 700	- 0. 01	0. 09999
3. 700	3. 800	0. 01	0. 10001
3. 800	3. 900	0. 01	0. 10001