

Staff Serial No:209
Staff Owner: Landgate

Length: 4 metres
Material: Fibreglass

Test No: Test 3-209
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 Temperature21.3 degrees Celsius
Level: Leica/LS15/702272

Correction Factor: 0.99982 At 25.0 degrees Celsius (Correction Factor is temperature dependent).

Graduation Uncertainty: 0.00026 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	0.07082	0.16173	0.09084	0.09091	-0.00007
1	2-3	0.16173	0.32593	0.16401	0.16420	-0.00019
1	3-4	0.32593	0.47206	0.14615	0.14613	0.00002
1	4-5	0.47206	0.68494	0.21305	0.21288	0.00017
1	5-6	0.68494	0.87108	0.18609	0.18614	-0.00005
1	6-7	0.87108	1.07090	0.19975	0.19982	-0.00007
1	7-8	1.07090	1.27582	0.20498	0.20492	0.00006
1	8-9	1.27582	1.52320	0.24691	0.24738	-0.00047
1	9-10	1.52320	1.79073	0.26761	0.26753	0.00008
1	10-11	1.79073	2.12384	0.33313	0.33311	0.00002
1	11-12	2.12384	2.38770	0.26384	0.26386	-0.00002
1	12-13	2.38770	2.51359	0.12582	0.12589	-0.00007
1	13-14	2.51359	2.64339	0.12978	0.12980	-0.00002
1	14-15	2.64339	2.87205	0.22857	0.22866	-0.00009
1	15-16	2.87205	3.05452	0.18243	0.18247	-0.00004
1	16-17	3.05452	3.20623	0.15183	0.15171	0.00012
1	17-18	3.20623	3.35958	0.15330	0.15335	-0.00005
1	18-19	3.35958	3.51683	0.15720	0.15725	-0.00005
1	19-20	3.51683	3.66545	0.14863	0.14862	0.00001
1	20-21	3.66545	3.87527	0.20969	0.20982	-0.00013

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Correction Factor = 0.99978030 (1+(0.00001000 (Temperature - 21.3)))

Correction Factor = 1.00000 when the temperature is 43.3 degrees Celsius

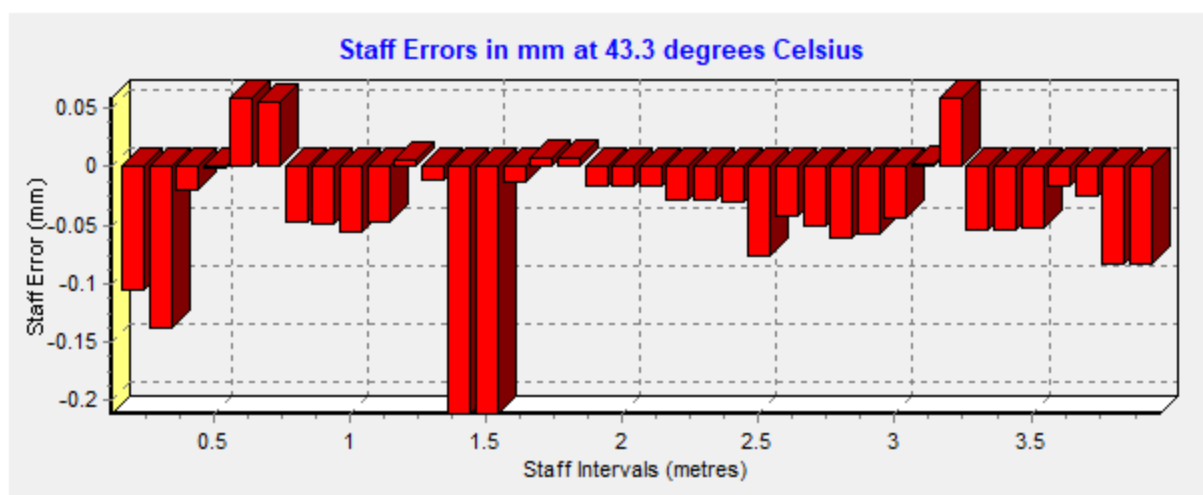
Temperature	Correction Factor	Correction/Metre (mm)
0	0.99957	- 0.43
2	0.99959	- 0.41
4	0.99961	- 0.39
6	0.99963	- 0.37
8	0.99965	- 0.35
10	0.99967	- 0.33
12	0.99969	- 0.31
14	0.99971	- 0.29
16	0.99973	- 0.27
18	0.99975	- 0.25
20	0.99977	- 0.23
22	0.99979	- 0.21
24	0.99981	- 0.19
26	0.99983	- 0.17
28	0.99985	- 0.15
30	0.99987	- 0.13
32	0.99989	- 0.11
34	0.99991	- 0.09
36	0.99993	- 0.07
38	0.99995	- 0.05
40	0.99997	- 0.03

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Audit Test: Test 47:Boya
Audit Date: 17/03/2020
Average Observed Temperature21.3degrees Celsius



From (metres)	To (metres)	Error (mm)	Corrected Interval (metres)
0. 100	0. 200	- 0. 11	0. 09989
0. 200	0. 300	- 0. 14	0. 09986
0. 300	0. 400	- 0. 02	0. 09998
0. 400	0. 500	0. 00	0. 10000
0. 500	0. 600	0. 06	0. 10006
0. 600	0. 700	0. 05	0. 10005
0. 700	0. 800	- 0. 05	0. 09995
0. 800	0. 900	- 0. 05	0. 09995
0. 900	1. 000	- 0. 06	0. 09994
1. 000	1. 100	- 0. 05	0. 09995
1. 100	1. 200	0. 01	0. 10001
1. 200	1. 300	- 0. 01	0. 09999
1. 300	1. 400	- 0. 21	0. 09979
1. 400	1. 500	- 0. 21	0. 09979

From (metres)	To (metres)	Error (mm)	Corrected Interval (metres)
1. 500	1. 600	- 0. 01	0. 09999
1. 600	1. 700	0. 01	0. 10001
1. 700	1. 800	0. 01	0. 10001
1. 800	1. 900	- 0. 02	0. 09998
1. 900	2. 000	- 0. 02	0. 09998
2. 000	2. 100	- 0. 02	0. 09998
2. 100	2. 200	- 0. 03	0. 09997
2. 200	2. 300	- 0. 03	0. 09997
2. 300	2. 400	- 0. 03	0. 09997
2. 400	2. 500	- 0. 08	0. 09992
2. 500	2. 600	- 0. 04	0. 09996
2. 600	2. 700	- 0. 05	0. 09995
2. 700	2. 800	- 0. 06	0. 09994
2. 800	2. 900	- 0. 06	0. 09994
2. 900	3. 000	- 0. 04	0. 09996
3. 000	3. 100	0. 00	0. 10000
3. 100	3. 200	0. 06	0. 10006
3. 200	3. 300	- 0. 05	0. 09995
3. 300	3. 400	- 0. 05	0. 09995
3. 400	3. 500	- 0. 05	0. 09995
3. 500	3. 600	- 0. 02	0. 09998
3. 600	3. 700	- 0. 03	0. 09997
3. 700	3. 800	- 0. 08	0. 09992
3. 800	3. 900	- 0. 08	0. 09992