

Staff Serial No:210  
Staff Owner: Landgate

Length: 4 metres  
Material: Fibreglass

Test No: Test 5-210  
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 Temperature24.2 degrees Celsius  
Level: Leica/LS15/702272

Correction Factor: 0.99990 At 25.0 degrees Celsius (Correction Factor is temperature dependent).

Graduation Uncertainty: 0.00013 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	0.07097	0.16185	0.09084	0.09088	-0.00004
1	2-3	0.16185	0.32585	0.16401	0.16400	0.00001
1	3-4	0.32585	0.47205	0.14615	0.14620	-0.00005
1	4-5	0.47205	0.68502	0.21305	0.21297	0.00008
1	5-6	0.68502	0.87117	0.18609	0.18615	-0.00006
1	6-7	0.87117	1.07086	0.19975	0.19969	0.00006
1	7-8	1.07086	1.27591	0.20498	0.20505	-0.00007
1	8-9	1.27591	1.52282	0.24691	0.24691	0.00000
1	9-10	1.52282	1.79052	0.26761	0.26770	-0.00009
1	10-11	1.79052	2.12350	0.33313	0.33298	0.00015
1	11-12	2.12350	2.38738	0.26384	0.26388	-0.00004
1	12-13	2.38738	2.51324	0.12582	0.12586	-0.00004
1	13-14	2.51324	2.64307	0.12978	0.12983	-0.00005
1	14-15	2.64307	2.87163	0.22857	0.22856	0.00001
1	15-16	2.87163	3.05417	0.18243	0.18254	-0.00011
1	16-17	3.05417	3.20605	0.15183	0.15188	-0.00005
1	17-18	3.20605	3.35941	0.15330	0.15336	-0.00006
1	18-19	3.35941	3.51658	0.15720	0.15717	0.00003
1	19-20	3.51658	3.66530	0.14863	0.14872	-0.00009
1	20-21	3.66530	3.87498	0.20969	0.20968	0.00001

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Correction Factor = 0.99989594 (1+(0.00001000 (Temperature - 24.2)))

Correction Factor = 1.00000 when the temperature is 34.6 degrees Celsius

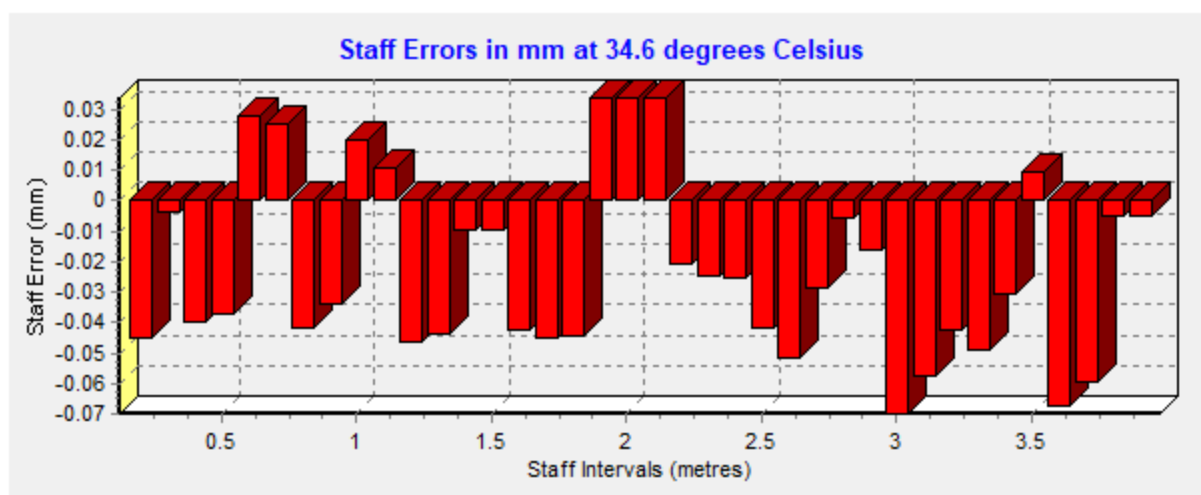
Temperature	Correction Factor	Correction/Metre (mm)
0	0. 99965	- 0. 35
2	0. 99967	- 0. 33
4	0. 99969	- 0. 31
6	0. 99971	- 0. 29
8	0. 99973	- 0. 27
10	0. 99975	- 0. 25
12	0. 99977	- 0. 23
14	0. 99979	- 0. 21
16	0. 99981	- 0. 19
18	0. 99983	- 0. 17
20	0. 99985	- 0. 15
22	0. 99987	- 0. 13
24	0. 99989	- 0. 11
26	0. 99991	- 0. 09
28	0. 99993	- 0. 07
30	0. 99995	- 0. 05
32	0. 99997	- 0. 03
34	0. 99999	- 0. 01
36	1. 00001	0. 01
38	1. 00003	0. 03
40	1. 00005	0. 05

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Laboratory: Boya  
Audit Test: Test 47:Boya  
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Average Observed Temperature24.2degrees Celsius



From (metres)	To (metres)	Error (mm)	Corrected Interval (metres)
0. 100	0. 200	- 0. 05	0. 09995
0. 200	0. 300	0. 00	0. 10000
0. 300	0. 400	- 0. 04	0. 09996
0. 400	0. 500	- 0. 04	0. 09996
0. 500	0. 600	0. 03	0. 10003
0. 600	0. 700	0. 03	0. 10003
0. 700	0. 800	- 0. 04	0. 09996
0. 800	0. 900	- 0. 03	0. 09997
0. 900	1. 000	0. 02	0. 10002
1. 000	1. 100	0. 01	0. 10001
1. 100	1. 200	- 0. 05	0. 09995
1. 200	1. 300	- 0. 04	0. 09996
1. 300	1. 400	- 0. 01	0. 09999
1. 400	1. 500	- 0. 01	0. 09999

From (metres)	To (metres)	Error (mm)	Corrected Interval (metres)
1. 500	1. 600	- 0. 04	0. 09996
1. 600	1. 700	- 0. 05	0. 09995
1. 700	1. 800	- 0. 04	0. 09996
1. 800	1. 900	0. 03	0. 10003
1. 900	2. 000	0. 03	0. 10003
2. 000	2. 100	0. 03	0. 10003
2. 100	2. 200	- 0. 02	0. 09998
2. 200	2. 300	- 0. 02	0. 09998
2. 300	2. 400	- 0. 03	0. 09997
2. 400	2. 500	- 0. 04	0. 09996
2. 500	2. 600	- 0. 05	0. 09995
2. 600	2. 700	- 0. 03	0. 09997
2. 700	2. 800	- 0. 01	0. 09999
2. 800	2. 900	- 0. 02	0. 09998
2. 900	3. 000	- 0. 07	0. 09993
3. 000	3. 100	- 0. 06	0. 09994
3. 100	3. 200	- 0. 04	0. 09996
3. 200	3. 300	- 0. 05	0. 09995
3. 300	3. 400	- 0. 03	0. 09997
3. 400	3. 500	0. 01	0. 10001
3. 500	3. 600	- 0. 07	0. 09993
3. 600	3. 700	- 0. 06	0. 09994
3. 700	3. 800	- 0. 01	0. 09999
3. 800	3. 900	- 0. 01	0. 09999