## COURSE MEASUREMENT REPORT

## - REPORT FOR NATIONAL CERTIFIED COURSE -



CONTACT INFORMATION

|  | Measured by: | Organizer: |
| :--- | :--- | :--- |
| Contact person: | Samuel Hafsahl | Gjermund Sørstad |
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It is hereby confirmed that the course has been measured by a nationally certified course measurer from Norwegian Athletics. The course is measured in accordance with Norwegian athletics regulations, and the distance(s) has the correct length(s). The survey is valid for 5 years, except if the route is changed.

## Norwegian Athletic Federation

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| CALIBRATION COURSE AND PROCEDURE |  |
| :--- | :--- |
| Length of measuring tape (steel measuring tape only) | 50 m |
| Length of calibration course 1st measurement | 350 m |
| Length of calibration course 2nd measurement | 350 m |
| Possible 3rd measure (max. 1 cm diff per 100m 1 |  |
| Dat and 2 ${ }^{\text {nd }}$ ) |  |
| Average of measurements before adjustments | 28.04 .2024 18:00 |
| Temperature (road or measuring tape) | 350 m |
| Adjustment cf. D-(D*(1+(temp-20)*0,0000115) | 6 |
| Measured calibration distance after adjustment | 0,9998390 |
| Distance from start/finish to calibration distance | 1200 m |


| CALIBRATION INFORMATION - (max 8 counts difference of 1000 m between 4 measurements, ie <br> 2 counts of 300 m and 3 count of 400 m ) |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pre-measurement: |  | Post measurement: |  |  |  |
|  | Date and Time: 28.04.2024 18:00 |  | Date and Time: 28.04.2024 18:30 |  |  |  |
|  | Start | End | Diff. | Start | End | Diff. |
| 1st measure | 67716,0 | 71860,0 | 4144,0 | 465,0 | 4608,0 | 4143,0 |
| 2nd measure | 71860,0 | 76004,0 | 4144,0 | 4608,0 | 8752,0 | 4144,0 |
| 3rd measure | 76004,0 | 80147,0 | 4143,0 | 8752,0 | 12895,0 | 4143,0 |
| 4th measure | 80147,0 | 84290,0 | 4143,0 | 12895,0 | 17039,0 | 4144,0 |

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|  | Pre <br> measurement | Post <br> measurement |  |
| :--- | :--- | :--- | :--- |
| Average <br> $\mathbf{( 1 + 2 + 3 + 4 ) ~ / 4 ~}$ | 4143,5 | 4143,5 | Today's constant. Either <br> highest or average of before <br> and after measurement |
| Working constant 1 km | 11840,5 | 11840,5 |  |
| Addn. +1\%o | 11,8 | 11,8 |  |
| Measurement constant <br> (rounded) | 11852 | 11852 | 11852 |


| MEASUREMENT PROCEDURE |  |  |
| :--- | :--- | :--- |
| Measurement constant | 11852 |  |
| Measured Distance | Counter | Start, At first lamppost by the parking lot. <br> Measured in running direction |
| 0 m | 84531,0 | Finish, same as start |
| 655 m | 92294,0 |  |
|  |  |  |
|  | 7763,0 |  |

Second measurement in opposite direction

| Om | 92294,0 | Start, At first lamppost by the parking lot. <br> Measured in opposite running direction |
| :--- | :--- | :--- |
| 655 m | 100056,0 | Finish, same as start |
|  |  |  |
|  | 7762,0 |  |

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## CONCLUSION OF MEASUREMENT

1. Measurement method

Cook-Jones counter mounted on bicycle wheel
2. Measurement procedure

Stopp counter - Start counter = total counts
92 294-84 531 = 7763

Total counts / measurement constant * $1000=$ total distance in meter
$7763 / 118852 * 1000=655$ meter
The course was measured in both directions with one tick in difference.

The race is a closed loop. Race will finish after 6 hours.
Rounds will be counted and the extra distance after 6 hours will be measured with a measuring-weel.

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CALIBRATION COURSE MAP

https://www.google.com/maps/d/edit?mid=1M-
YICQwGYiMPDSPXilrQao biiBu9rA\&usp=sharing

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## COURSE MAP \& DESCRIPTION


https://www.google.com/maps/d/edit?mid=1NkNAsVSprsOiLzzlguMAcRrys8E-
ZCO\&usp=sharing

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Alongside Heiahallen, in Heiaveien the course was measured in the middle of the road, to make it easier to run the turn. The organizers must have a fence or ribbon in place as a guide.


When turning from Ovenstadveien down Heiaveien, the track is measured half a meter from the edge of the grass, not on the asphalt. No extra fence or ribbon is needed.

