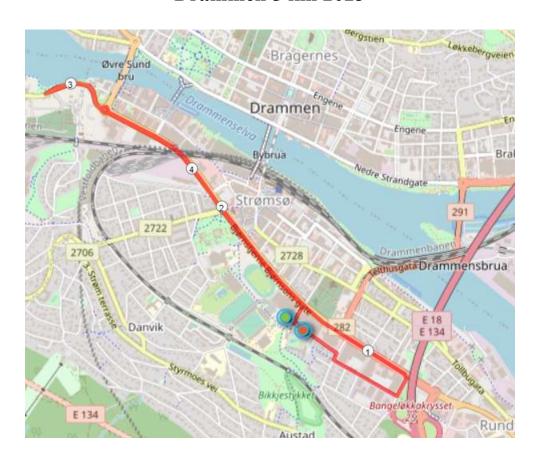
COURSE MEASUREMENT

Drammen 5 km 2023



SUMMARY SHEET

EVENT: **Drammen 5 km**

LOCATION: Drammen, Norway

DATE: 2 April 2023

Promoting Organisation: UHM Holding

Name of race director André Hjorteseth

Email: Andrehjorteseth.privat@gmail.com

Distance: The course is not less than 5,000 m

Measured by Peer Jensen, Denmark

Date: 1 April 2023, 05:05-06:35

Measurement method: Jones counter mounted on bicycle wheel

Elevation, if not same, of: START 0 m FINISH 0 m Distance, in a straight line, between start & finish: 100 m

Description of the Course

Terrain: nearly flat

Race surface tarmac roads

Course configuration: point to point.

Start point: Schwartz gate, at grating just after "Drammenshallen" – see photos

Finish line: *Schwartz gate off small street – see photos*

Turning point Nedre Eikervei at lamppost 10 m after no 1 and 30 m after Grensegata,

see photos

Measurement Details

Section of road available: On Bjørnstjerne Bjørnsons gate and on Kreftings gate only the right

part of the southern part of the road is available for the runners. On all other roads all the road is available, but only the right part, because the runners meet each other. Cones will be placed in the

middle of the road.

Line to be taken at turns: **Shortest possible route.**

The runners must stay on the car roads. They may not use the

pavements. Cones will be placed at turns.

SIGNED: ... Peer Jensen DATE: 2023-04-01

STEEL TAPING DATA

EVENT: **Drammen 5 km**

LOCATION: Drammen, Norway

DATE: 2 April 2023

For measuring a calibration course

Name of calibration course: Bjørnstjerne Bjørnsons Gate

City/town and State: Drammen, Norway
Date: 30 marts 2023

Start time: 16:30 Finish time: 17:20

Pavement temperature: Start 1 °C Finish 1 °C Average 1 °C

Measurements and calculations:

First measurement. 50.00 m x 6 + 7.79 cm = 307.79 mSecond measurement. 50.00 m x 6 + 7.78 cm = 307.78 mAverage raw (uncorrected) measurement of course: 307.785 m

Temperature correction.

Correction factor = 1-(19*0.0000115) = 0.9997815

Final (adjusted) length of calibration course 307.785*0,9977815 = 307.72 m

Calibrations

Pre-meas	urement		Post-measurement		
Date/Time	e 1 April 2023 04	:35	Date/Time 29 May 2022 06:45		
Temp.	-4 °C, no clouds	, weak wind	Temp	-6 °C, sunny, we	eak wind
Start	End	Reading	Start	End	Reading
354500	358464	3964	510500	515464	3964
358500	362464	3964	515500	519464	3464
362500	366464	3964	519500	523463	3463
366500	370464	3964	523500	527465	3465
Average		3464	Average		3464
Working Constant		12881.84/km	Working	Working Constant	
+ 1 ‰		12.88/km	+ 1 ‰	+ 1 ‰	
Pre-measurement constant		12894.72/km	post-meas	post-measurement constant 12894.72/1	

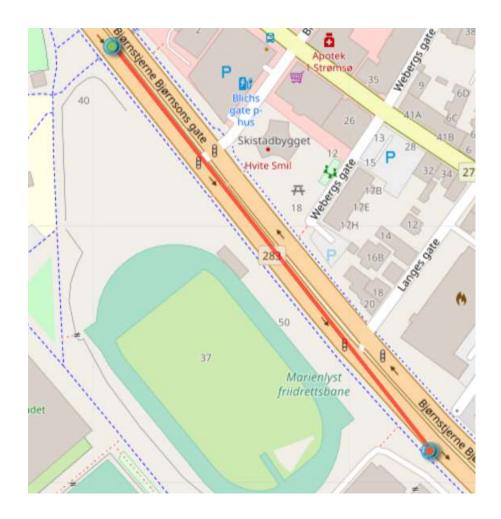
Measurement working constant: 12895/km Constant for the Day (average): 12895/km

CALIBRATION COURSE MAP

EVENT: **Drammen 5 km**

LOCATION: Drammen, Norway

DATE: 2 April 2023



Calibration course 307.72 metres Distance to start point 200 metres

MEASUREMENT PROCEDURE

EVENT: **Drammen 5 km**

LOCATION: Drammen, Norway

DATE: 2 April 2023

Measurement working constant: 12895/km Constant for the Day (highest): 12895/km

Measurement of the course:

I measured in running direction from start to finish and stopped every km. Race director took photos. I also stopped at a fixpoint to find the 5 km turning point.

05:05			
Counter	Counts	Distance	Fix point
373200	0	0.00 m	Start line
386095	12895	1,000.00 m	
398990	12895	2,000.00 m	
410550	11560	2,896.50 m	At sign "Pulsesvingen"
411885	1335	3,000.00 m	
424780	12895	4,000.00 m	
437675	12895	5,000.00 m	
450570	12895	6,000.00 m	
463465	12895	7,000.00 m	
476360	12895	8,000.00 m	
479945	3585	8,278.00 m	At sign "Pulsesvingen"
489255	9310	9,000.00 m	
502150	12895	10.000.00 m	

Measured distance from start to fixed 5 km turning point 2,896.50 m.

Measured distance from fixed 5 km turning point to finish line 5 km course 1,722.00 m.

4,618.50 m

The 5 km course is missing 5,000-4,618.50 m = 381.50 meters

That means that the real turning point needs to be moved 381.50/2 = 190.75 meters from the fixed turning point.

190.75 meters = 190.75*12,895 = 2,460 counts, which I measured from the fixed turning point 550000+2460 = 552460

Photos of start area

EVENT: **Drammen 5 km**

LOCATION: **Drammen, Norway**

DATE: 2 April 2023





Start line: Schwarts gate at grating after "Drammenshallen"

MAP of turning point

EVENT: **Drammen 5 km**

LOCATION: **Drammen, Norway**

DATE: 2 April 2023





Photos of finish line

EVENT: **Drammen 5 km**

LOCATION: Drammen, Norway

DATE: 2 April 2023





MAP of the course

EVENT: **Drammen 10 km**

LOCATION: Drammen, Norway

DATE: 2 April 2023

