

CERTIFICATE OF FIS HOMOLOGATED CROSS-COUNTRY COURSE FIS CROSS-COUNTRY COMMITTEE

- (1) Registration number:
- (2) Name of the competition site:
- (3) Name of city/region:
- (4) Organizer:
- (5) National ski association:
- (6) Contact person in the organizing committee:
- (7) Homologation inspector:
- (8) Name of course:
- (9) Competition level for course

19/101.02/2.5

Mammaste Sport Center

Mammaste Estonia

Mammaste Sport Center

Estonian Ski Accociation

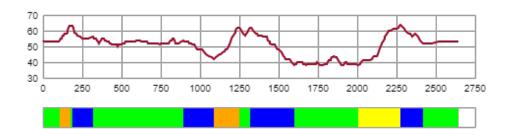
Arne Tilk

Vahur Leemets

Mammaste 2,5km

COC

Course length:	2,642m	Height difference (HD):	26m	Lowest point:	38m
Course category:	D	Maximum climb (MC):	26m	Highest point:	64m
		Total climb (TC):	90m		







FIS Office

Mignerey, Pierre FIS International Ski Federation Blochstrasse 2 / Postfach CH - 3653 Oberhofen FIS Stamp

FIS Homologation Responsible

/ Bjørkestøl, Hermod Date of Issue 24.09.2019 Valid until 30.06.2024 (10) Overview of the uphills:

	No.	PIC	% of TC
- major climbs	1	26	28.9
- shorter climbs	3	29	32.2
- descents	4	3	3.3
- undulated terrain	6	32	35.6

1) Stadium area:		Indoor working room:	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes

Good infrastructure (access, parking, media, etc.) yes Skitesting area along course/near stadium yes Warm up track near the stadium yes

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes			yes	yes
Course suitable for following competition formats with					
a) Classsical technique	yes			yes	yes
b) Free technique	yes			yes	yes

Course suitable for relay and skiathlon competition

a) On same course

b) Combined on different courses (C+D or D+D)

(13) Possibility of snow making:

100% covered with artificial snow

(14) Map Material:

Orienteering map, triangular measurement map

(15) Source of accurate elevation data:

GPS, Triangular measurement

(16) Safety considerations:

(17) General remarks:

(18) Date of first inspection: 2019/7/24

(19) Date of final inspection: 2019/9/19

(20) Summary of terrain characteristics

#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)			
1	2,005	26	26	11.7 - 31.2	9.6			
total			26			28.9% p	art of TC	
1	106	9			13.0	-		
2	1,089	9	9	13.9 - 19.3	9.3			
3	1,186	11	11	0.0 - 36.6	16.9			
total			29			32.2% p	art of TC	
total			0					
total			32			35.6% p	art of TC	
total	climb	·	90					
	1 total 2 3 total total total	1 2,005 total 1 106 2 1,089	1 2,005 26 total 1 106 9 2 1,089 9 3 1,186 11 total total total	1 2,005 26 26 total 26 1 106 9 9 2 1,089 9 9 3 1,186 11 11 total 29 total 32	1 2,005 26 26 11.7 - 31.2 1 106 9 9 0.0 - 39.6 2 1,089 9 9 13.9 - 19.3 3 1,186 11 11 0.0 - 36.6 total 29 total 0 total 32	1 2,005 26 26 11.7 - 31.2 9.6 1 106 9 9 0.0 - 39.6 13.0 2 1,089 9 9 13.9 - 19.3 9.3 3 1,186 11 11 0.0 - 36.6 16.9 total 29 total 0 total 32	1 2,005 26 26 11.7 - 31.2 9.6 1 106 9 9 0.0 - 39.6 13.0 2 1,089 9 9 13.9 - 19.3 9.3 3 1,186 11 11 0.0 - 36.6 16.9 total 29 32.2% p total 0 0.0% p total 32 35.6% p	1 2,005 26 26 11.7 - 31.2 9.6 1 106 9 9 0.0 - 39.6 13.0 2 1,089 9 9 13.9 - 19.3 9.3 3 1,186 11 11 0.0 - 36.6 16.9 total 29 32.2% part of TC total 0 0.0% part of TC total 32 35.6% part of TC