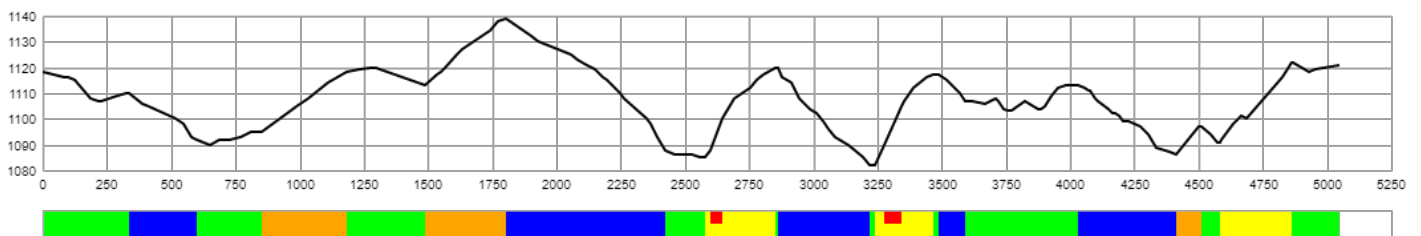




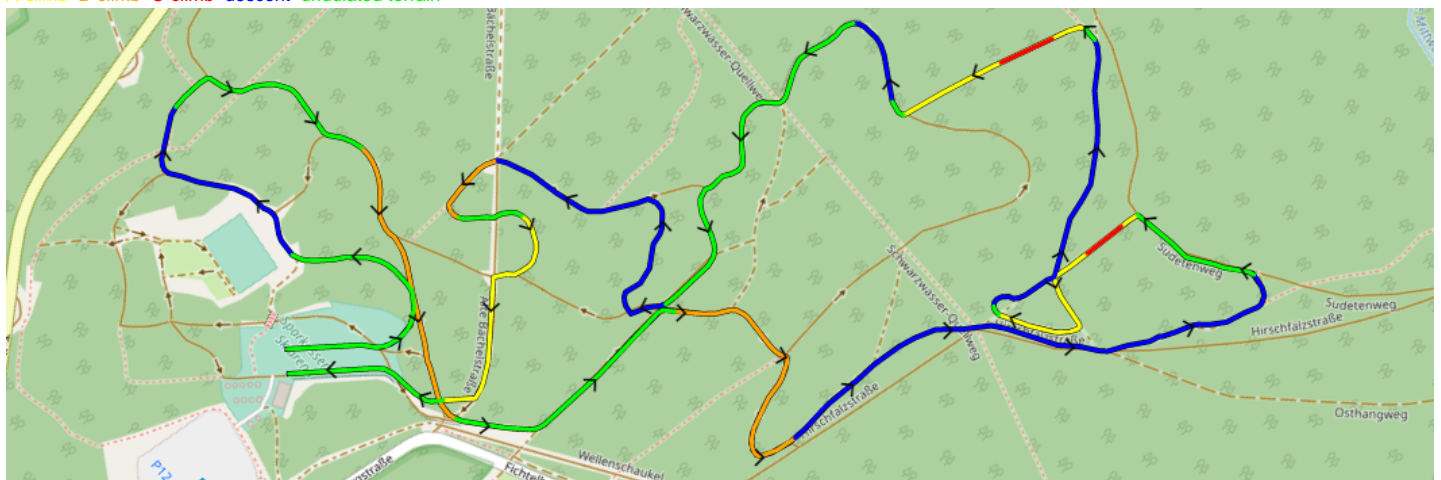
**CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE**

(1) Registration number:	WC20/01.13/5.0
(2) Name of the competition site:	SPARKASSEN SKI ARENA, Fichtelberg - Oberwiesenthal
(3) Name of city/region:	Oberwiesenthal, Sachsen
(4) Organizer:	WSC Erzgebirge Oberwiesenthal e.V.
(5) National ski association:	DSV
(6) Contact person in the organizing committee:	Patrick Burkhardt, Heiko Hennig
(7) Homologation inspector:	Jakub Vodrazka
(8) Name of course:	5km René Sommerfeld (WC)
(9) Competition level for course	WC

Course length:	5,047m	Height difference (HD):	57m	Lowest point:	1,082m
Course category:	D	Maximum climb (MC):	35m	Highest point:	1,139m
		Total climb (TC):	190m		



A-climb B-climb C-climb descent undulated terrain



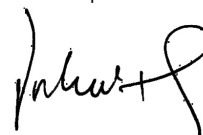
FIS Office


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

FIS Stamp



FIS Homologation
Responsible


Vodrazka, Jakub

Date of Issue
03.01.2020
Valid until
30.06.2025

(10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	3	102	53.7
- shorter climbs	3	60	31.6
- steep climbs	2	0	0.0
- descents	5	0	0.0
- undulated terrain	10	28	14.7

(11) 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	yes
Course suitable for following competition formats with					
a) Classical technique	yes				yes
b) Free technique	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:

Yes, part of the course.

(14) Map Material:

Good.

(15) Source of accurate elevation data:

Geokarte Sachsen, GPS measurement.

(16) Safety considerations:

Special attention needs to be paid to the curve after the long downhill!

(17) General remarks:

A very hard course with three "A" climbs in its second half (two really steep ones).

(18) Date of first inspection: 2019/6/11

(19) Date of final inspection: 2019/11/30

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb ■	1	2,575	35	35	6.3 - 26.6	12.7	C at 2,598m, PTC: 12m, 24.5%
	2	3,236	35	35	4.5 - 25.2	15.4	C at 3,277m, PTC: 15m, 23.4%
	3	4,580	31	32	-4.1 - 16.5	11.0	
	total			102			53.7% part of TC
B-climb ■	1	853	23	23	5.4 - 10.5	6.9	
	2	1,486	26	26	3.2 - 12.1	8.2	
	3	4,411	11	11	0.0 - 12.3	11.5	
	total			60			31.6% part of TC
C-climb ■	total			0			0.0% part of TC
undulated terrain ■	total			28			14.7% part of TC
	total climb			190			