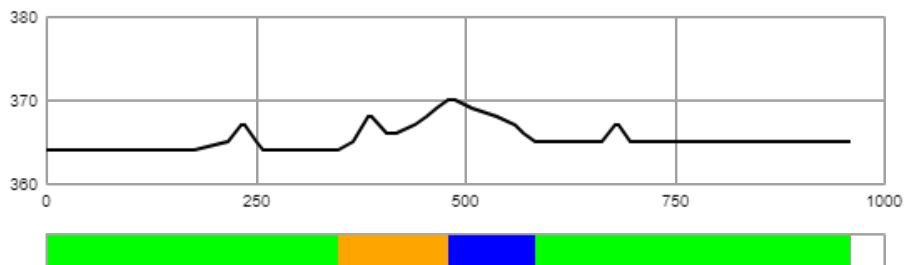




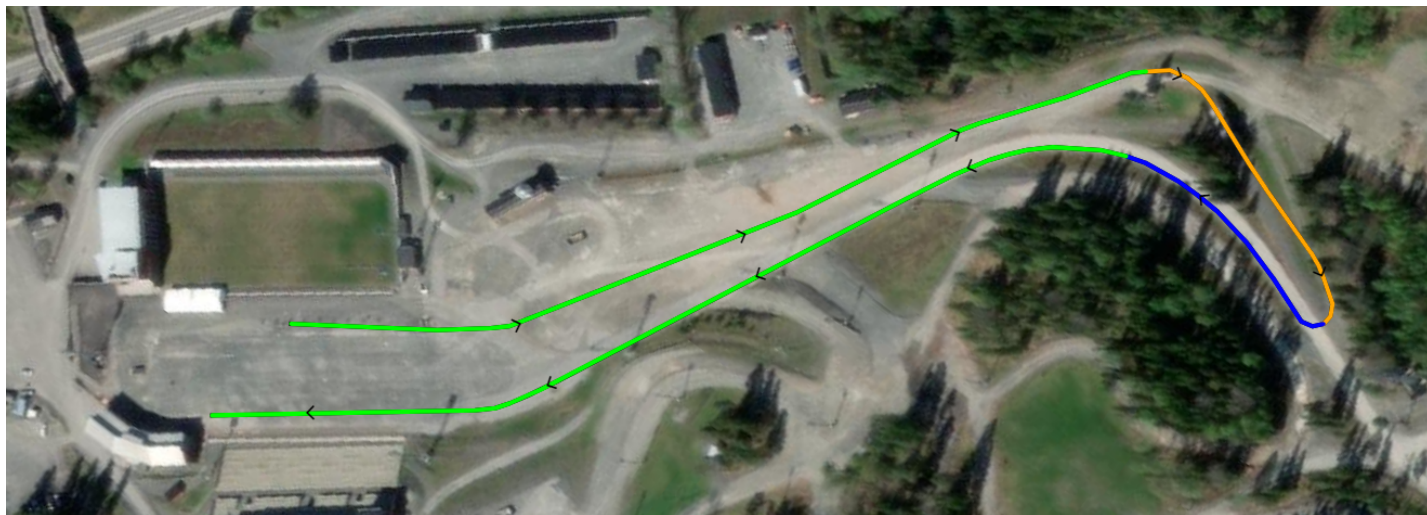
**CERTIFICATE  
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE  
FIS CROSS-COUNTRY COMMITTEE**

- |   |  |
|---|--|
| (1) Registration number:                        |  |
| (2) Name of the competition site:               | Östersunds Skidstadion                                     |
| (3) Name of city/region:                        | Östersund  |
| (4) Organizer:                                  | Organizing Committee World Para Snow Sports Championship   |
| (5) National ski association:                   | Svenska Parasportförbundet / Swedish Parasport Association |
| (6) Contact person in the organizing committee: | Tommie Jirhed  |
| (7) Homologation inspector:                     | Jonas Braam / Geir Colbjørnsen                             |
| (8) Name of course:                             | WPNS Sitski 1 km Sprint LW 10-12                           |
| (9) Competition level for course:               | WC COC   |

Course length:	960m	Height difference (HD):	6m	Lowest point:	364m
Course category:	D	Maximum climb (MC):	8m	Highest point:	370m
		Total climb (TC):	13m		



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



FIS Office

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FIS Homologation  
Responsible

Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	1	8	61.5
- undulated terrain	2	5	38.5

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

Very good. Snow storage to ensure competitions early in the season

(14) Map Material:

Very good

(15) Source of accurate elevation data:

LiDAR measurements from the Swedish Land Survey

(16) Safety considerations:

-

(17) General remarks:

-

(18) Date of first inspection: 2022/5/9

(19) Date of final inspection: 2022/10/2

(20) Summary of terrain characteristics

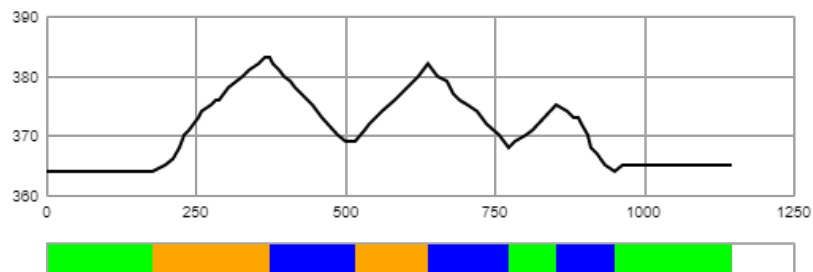
	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	■	total		0		0.0%	part of TC
B-climb	■	1	349	6	8	-10.8 - 15.9	4.6
		total		8		61.5%	part of TC
C-climb	■	total		0		0.0%	part of TC
undulated terrain	■	total		5		38.5%	part of TC
		total climb		13			



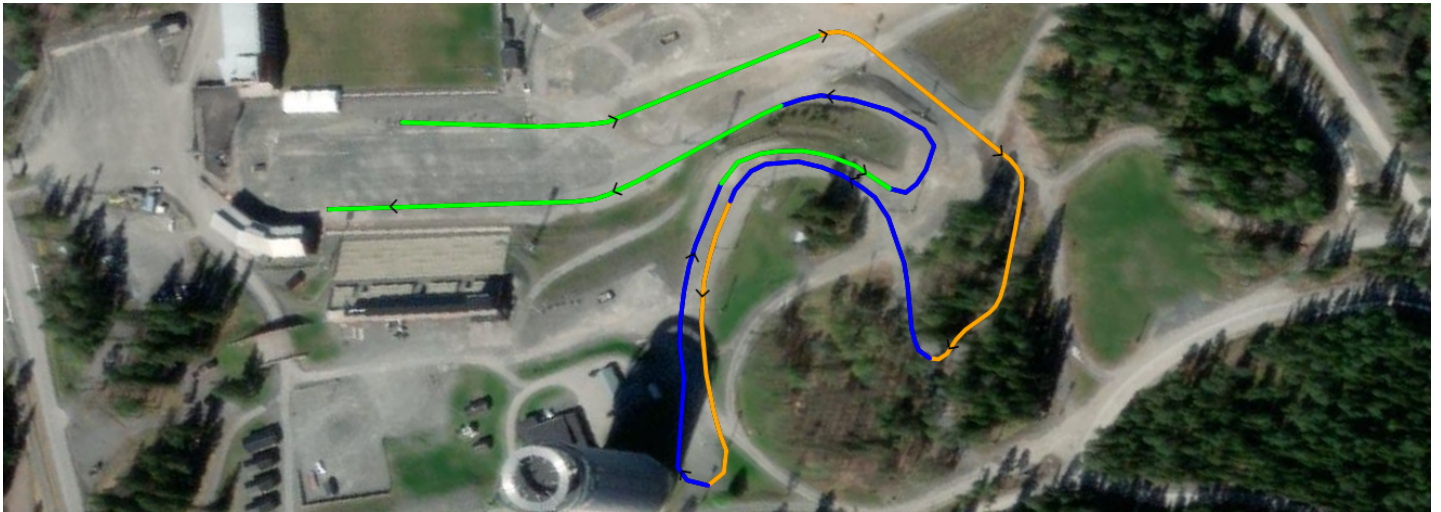
**CERTIFICATE  
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE  
FIS CROSS-COUNTRY COMMITTEE**

- |   |  |
|---|--|
| (1) Registration number:                        |  |
| (2) Name of the competition site:               | Östersunds Skidstadion                                     |
| (3) Name of city/region:                        | Östersund  |
| (4) Organizer:                                  | Organizing Committee World Para Snow Sports Championship   |
| (5) National ski association:                   | Svenska Parasportförbundet / Swedish Parasport Association |
| (6) Contact person in the organizing committee: | Tommie Jirhed  |
| (7) Homologation inspector:                     | Jonas Braam / Geir Colbjørnsen                             |
| (8) Name of course:                             | WPNS Standing Sprint 1.1 km LW 2-9, B 1-3                  |
| (9) Competition level for course:               | WC COC   |

Course length:	1,148m	Height difference (HD):	19m	Lowest point:	364m
Course category:	D	Maximum climb (MC):	19m	Highest point:	383m
		Total climb (TC):	40m		



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



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Responsible

Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	2	32	80.0
- descents	3	0	0.0
- undulated terrain	3	8	20.0

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

Very good. Snow storage to ensure competitions early in the season

(14) Map Material:

Very good

(15) Source of accurate elevation data:

LiDAR measurements from the Swedish Land Survey

(16) Safety considerations:

-

(17) General remarks:

-

(18) Date of first inspection: 2022/5/9

(19) Date of final inspection: 2022/10/2

(20) Summary of terrain characteristics

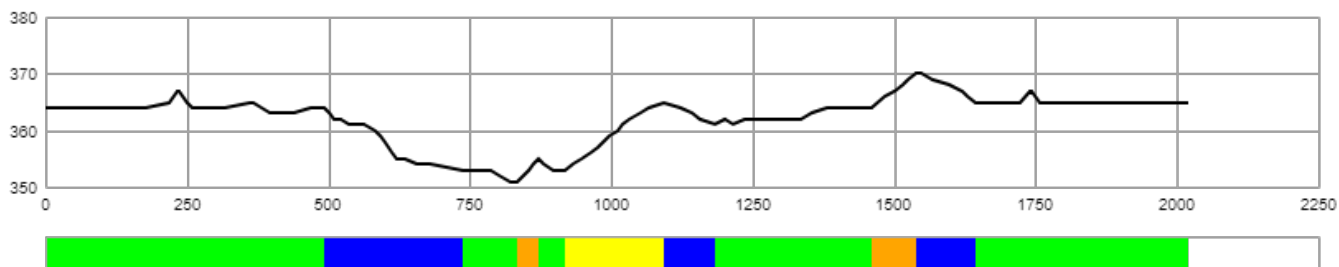
	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	■	total		0			0.0% part of TC
B-climb	■	1	178	19	19	0.0 - 27.3	9.7
		2	517	13	13	8.8 - 13.3	10.6
		total			32		
C-climb	■	total		0			0.0% part of TC
undulated terrain	■	total		8			20.0% part of TC
		total climb		40			



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

- |   |  |
|---|--|
| (1) Registration number:                        |  |
| (2) Name of the competition site:               | Östersunds Skidstadion                                     |
| (3) Name of city/region:                        | Östersund  |
| (4) Organizer:                                  | Organizing Committee World Para Snow Sports Championship   |
| (5) National ski association:                   | Svenska Parasportförbundet / Swedish Parasport Association |
| (6) Contact person in the organizing committee: | Tommie Jirhed  |
| (7) Homologation inspector:                     | Jonas Braam / Geir Colbjørnsen                             |
| (8) Name of course:                             | WPNS Sitski 2 km LW 10-12                                  |
| (9) Competition level for course:               | WC COC   |

Course length:	2,020m	Height difference (HD):	19m	Lowest point:	351m
Course category:	D	Maximum climb (MC):	12m	Highest point:	370m
		Total climb (TC):	33m		



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



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Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	1	12	36.4
- shorter climbs	2	10	30.3
- undulated terrain	5	11	33.3

(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	yes
Course suitable for following competition formats with					
a) Classical 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:

Very good. Snow storage to ensure competitions early in the season

(14) Map Material:

Very good

(15) Source of accurate elevation data:

LiDAR measurements from the Swedish Land Survey

(16) Safety considerations:

-

(17) General remarks:

-

(18) Date of first inspection: 2022/5/9

(19) Date of final inspection: 2022/10/2

(20) Summary of terrain characteristics

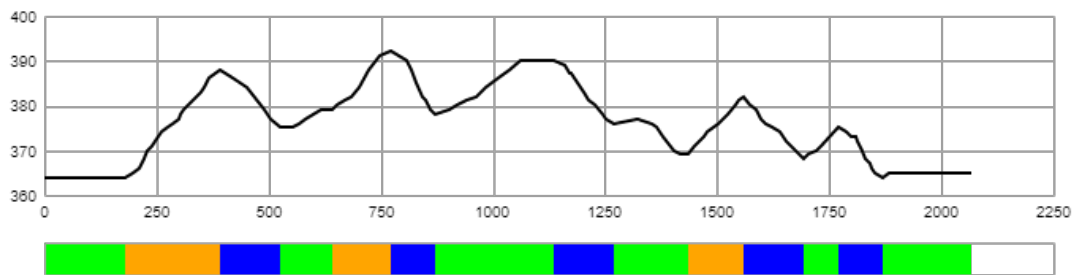
	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb <span style="color: yellow;">■</span>	1	917	12	12	3.9 - 9.5	6.8	
	total			12			36.4% part of TC
B-climb <span style="color: orange;">■</span>	1	835	4	4	9.8 - 11.0	10.5	
	2	1,462	6	6	5.4 - 10.5	7.7	
	total			10			30.3% part of TC
C-climb <span style="color: red;">■</span>	total			0			0.0% part of TC
undulated terrain <span style="color: green;">■</span>	total			11			33.3% part of TC
	total climb			33			



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

- |   |  |
|---|--|
| (1) Registration number:                        |  |
| (2) Name of the competition site:               | Östersunds Skidstadion                                     |
| (3) Name of city/region:                        | Östersund  |
| (4) Organizer:                                  | Organizing Committee World Para Snow Sports Championship   |
| (5) National ski association:                   | Svenska Parasportförbundet / Swedish Parasport Association |
| (6) Contact person in the organizing committee: | Tommie Jirhed  |
| (7) Homologation inspector:                     | Jonas Braam / Geir Colbjørnsen                             |
| (8) Name of course:                             | WPNS Standing 2 km LW 2-9, B 1-3                           |
| (9) Competition level for course:               | WC COC   |

Course length:	2,066m	Height difference (HD):	28m	Lowest point:	364m
Course category:	D	Maximum climb (MC):	24m	Highest point:	392m
		Total climb (TC):	75m		



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



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FIS Homologation  
Responsible

Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	3	50	66.7
- descents	5	0	0.0
- undulated terrain	6	25	33.3

(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	yes
Course suitable for following competition formats with					
a) Classical 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:

Very good. Snow storage to ensure competitions early in the season

(14) Map Material:

Very good

(15) Source of accurate elevation data:

LiDAR measurements from the Swedish Land Survey

(16) Safety considerations:

-

(17) General remarks:

-

(18) Date of first inspection: 2022/5/9

(19) Date of final inspection: 2022/10/2

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	■	total		0			0.0% part of TC
B-climb	■	1	178	24	24	4.8 - 27.3	11.3
		2	641	13	13	4.1 - 17.0	9.8
		3	1,435	13	13	8.8 - 13.3	10.6
		total			50		
C-climb	■	total		0			0.0% part of TC
undulated terrain	■	total		25			33.3% part of TC
		total climb		75			

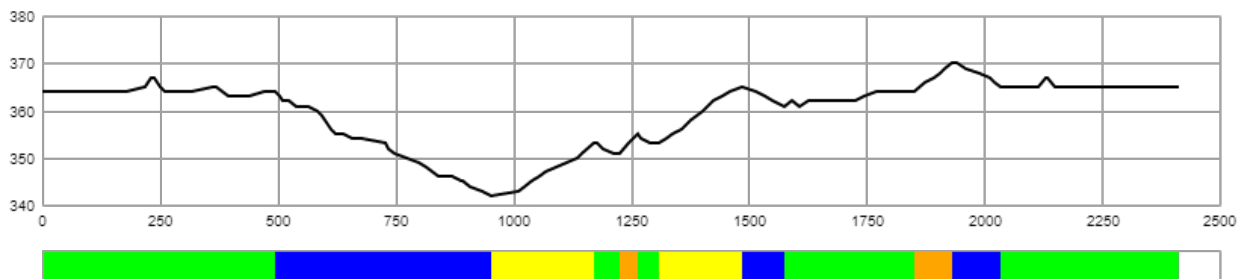




**CERTIFICATE  
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE  
FIS CROSS-COUNTRY COMMITTEE**

- |   |  |
|---|--|
| (1) Registration number:                        |  |
| (2) Name of the competition site:               | Östersunds Skidstadion                                     |
| (3) Name of city/region:                        | Östersund  |
| (4) Organizer:                                  | Organizing Committee World Para Snow Sports Championship   |
| (5) National ski association:                   | Svenska Parasportförbundet / Swedish Parasport Association |
| (6) Contact person in the organizing committee: | Tommie Jirhed  |
| (7) Homologation inspector:                     | Jonas Braam / Geir Colbjørnsen                             |
| (8) Name of course:                             | WPNS Sitski 2.5 km LW 10-12                                |
| (9) Competition level for course:               | WC COC   |

Course length:	2,410m	Height difference (HD):	28m	Lowest point:	342m
Course category:	D	Maximum climb (MC):	12m	Highest point:	370m
		Total climb (TC):	44m		



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



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FIS Homologation  
Responsible

Date of Issue

Valid until

## (10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	2	23	52.3
- shorter climbs	2	10	22.7
- undulated terrain	5	11	25.0

## (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	yes
Course suitable for following competition formats with					
a) Classical 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:

Very good. Snow storage to ensure competitions early in the season

## (14) Map Material:

Very good

## (15) Source of accurate elevation data:

LiDAR measurements from the Swedish Land Survey

## (16) Safety considerations:

-

## (17) General remarks:

-

## (18) Date of first inspection: 2022/5/9

## (19) Date of final inspection: 2022/10/2

## (20) Summary of terrain characteristics

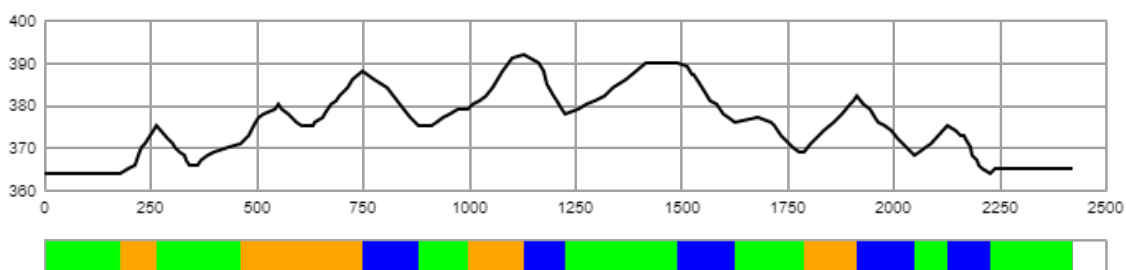
	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	1	954	11	11	1.8 - 10.0	5.1	
	2	1,307	12	12	3.9 - 9.5	6.8	
	total			23			52.3% part of TC
B-climb	1	1,225	4	4	9.8 - 11.0	10.5	
	2	1,852	6	6	5.4 - 10.5	7.7	
	total			10			22.7% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	total			11			25.0% part of TC
	total climb			44			



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

- |   |  |
|---|--|
| (1) Registration number:                        |  |
| (2) Name of the competition site:               | Östersunds Skidstadion                                     |
| (3) Name of city/region:                        | Östersund  |
| (4) Organizer:                                  | Organizing Committee World Para Snow Sports Championship   |
| (5) National ski association:                   | Svenska Parasportförbundet / Swedish Parasport Association |
| (6) Contact person in the organizing committee: | Tommie Jirhed  |
| (7) Homologation inspector:                     | Jonas Braam / Geir Colbjørnsen                             |
| (8) Name of course:                             | WPNS Standing 2.5 km LW 2-9, B 1-3                         |
| (9) Competition level for course:               | WC COC   |

Course length:	2,422m	Height difference (HD):	28m	Lowest point:	364m
Course category:	D	Maximum climb (MC):	22m	Highest point:	392m
		Total climb (TC):	89m		



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



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FIS Homologation  
Responsible

Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	4	59	66.3
- descents	5	0	0.0
- undulated terrain	7	30	33.7

(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	yes
Course suitable for following competition formats with					
a) Classical 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:

Very good. Snow storage to ensure competitions early in the season

(14) Map Material:

Very good

(15) Source of accurate elevation data:

LiDAR measurements from the Swedish Land Survey

(16) Safety considerations:

-

(17) General remarks:

-

(18) Date of first inspection: 2022/5/9

(19) Date of final inspection: 2022/10/2

(20) Summary of terrain characteristics

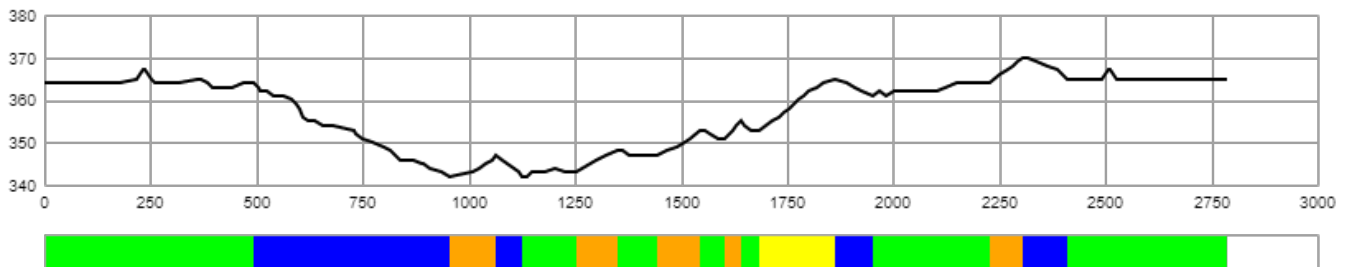
	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	total			0			0.0% part of TC
B-climb	1	178	11	11	4.8 - 27.3	12.6	
	2	462	17	22	-13.0 - 19.6	6.0	
	3	996	13	13	4.1 - 17.0	9.8	
	4	1,791	13	13	8.8 - 13.3	10.6	
	total			59			66.3% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	total			30			33.7% part of TC
	total climb			89			



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

- |   |  |
|---|--|
| (1) Registration number:                        |  |
| (2) Name of the competition site:               | Östersunds Skidstadion                                     |
| (3) Name of city/region:                        | Östersund  |
| (4) Organizer:                                  | Organizing Committee World Para Snow Sports Championship   |
| (5) National ski association:                   | Svenska Parasportförbundet / Swedish Parasport Association |
| (6) Contact person in the organizing committee: | Tommie Jirhed  |
| (7) Homologation inspector:                     | Jonas Braam / Geir Colbjørnsen                             |
| (8) Name of course:                             | WPNS Sitski 3 km LW 10-12                                  |
| (9) Competition level for course:               | WC COC   |

Course length:	2,787m	Height difference (HD):	28m	Lowest point:	342m
Course category:	D	Maximum climb (MC):	12m	Highest point:	370m
		Total climb (TC):	51m		



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



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FIS Homologation  
Responsible

Date of Issue

Valid until

## (10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	1	12	23.5
- shorter climbs	5	26	51.0
- undulated terrain	7	13	25.5

## (11) Stadium area:

Fixed stadium area	yes
Fixed building	yes
Temporary stadium	no
Temporary building	no
Good infrastructure (access, parking, media, etc.)	yes
Skitesting area along course/near stadium	yes
Warm up track near the stadium	yes

## Indoor working room:

Timekeeping	yes
Announcer	yes
Jury	yes
Race office	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	yes
Course suitable for following competition formats with					
a) Classical 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:

Very good. Snow storage to ensure competitions early in the season

## (14) Map Material:

Very good

## (15) Source of accurate elevation data:

LiDAR measurements from the Swedish Land Survey

## (16) Safety considerations:

-

## (17) General remarks:

-

## (18) Date of first inspection: 2022/5/9

## (19) Date of final inspection: 2022/10/2

## (20) Summary of terrain characteristics

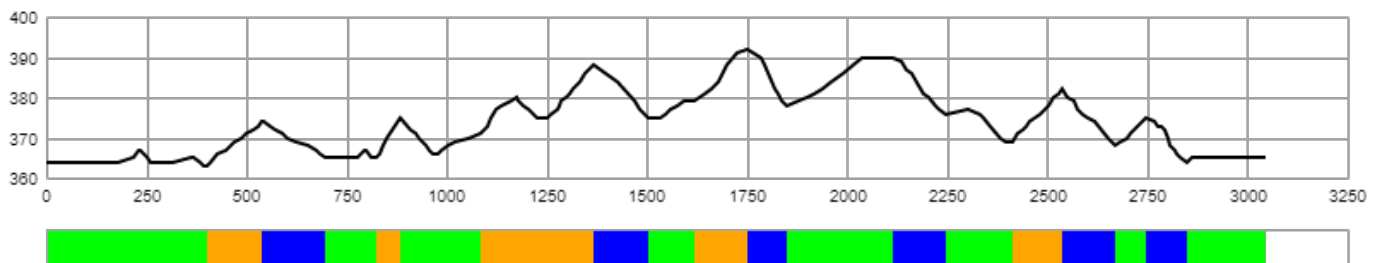
	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb <span style="color: yellow;">■</span>	1	1,684	12	12	3.9 - 9.5	6.8	
	total			12			23.5% part of TC
B-climb <span style="color: orange;">■</span>	1	954	5	5	1.8 - 13.1	4.6	
	2	1,252	5	5	3.8 - 6.5	5.1	
	3	1,446	6	6	4.3 - 10.0	6.0	
	4	1,602	4	4	9.8 - 11.0	10.5	
	5	2,229	6	6	5.4 - 10.5	7.7	
	total				26		
C-climb <span style="color: red;">■</span>	total			0			0.0% part of TC
undulated terrain <span style="color: green;">■</span>	total			13			25.5% part of TC
	total climb			51			



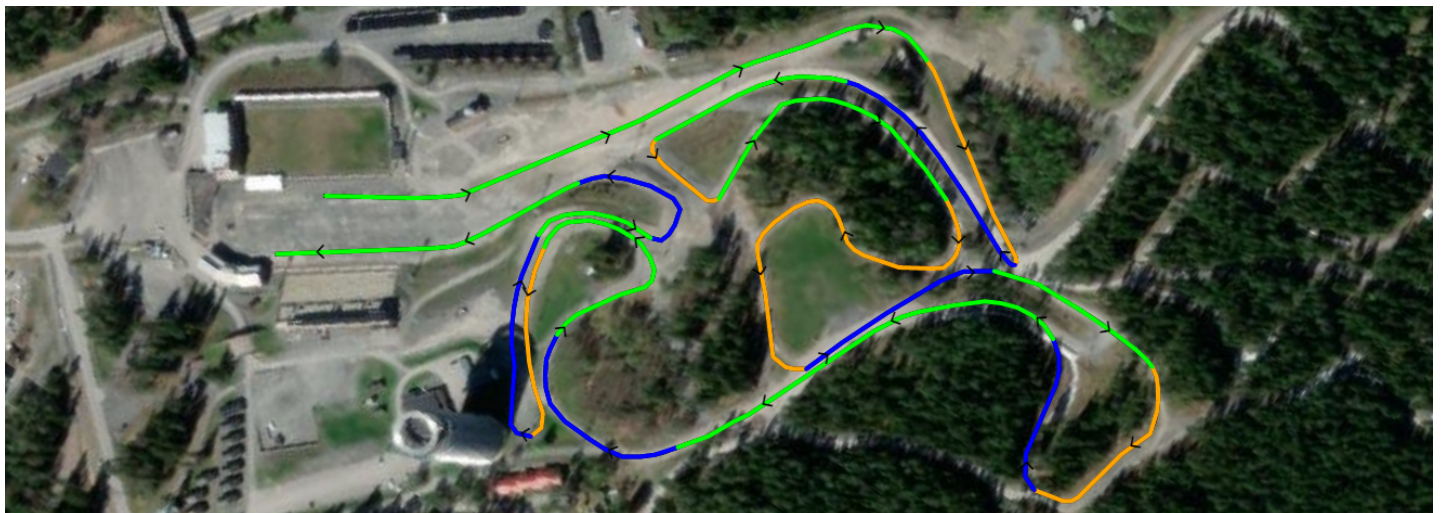
**CERTIFICATE  
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE  
FIS CROSS-COUNTRY COMMITTEE**

(1) Registration number:	
(2) Name of the competition site:	Östersunds Skidstadion
(3) Name of city/region:	Östersund
(4) Organizer:	Organizing Committee World Para Snow Sports Championship
(5) National ski association:	Svenska Parasportförbundet / Swedish Parasport Association
(6) Contact person in the organizing committee:	Tommie Jirhed
(7) Homologation inspector:	Jonas Braam / Geir Colbjørnsen
(8) Name of course:	WPNS Standing 3 km LW 2-9, B 1-3
(9) Competition level for course:	WC COC

Course length:	3,042m	Height difference (HD):	29m	Lowest point:	363m
Course category:	D	Maximum climb (MC):	22m	Highest point:	392m
		Total climb (TC):	105m		



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



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Responsible

Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	5	69	65.7
- descents	6	0	0.0
- undulated terrain	8	36	34.3

(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	yes
Course suitable for following competition formats with					
a) Classical 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:

Very good. Snow storage to ensure competitions early in the season

(14) Map Material:

Very good

(15) Source of accurate elevation data:

LiDAR measurements from the Swedish Land Survey

(16) Safety considerations:

-

(17) General remarks:

-

(18) Date of first inspection: 2022/5/9

(19) Date of final inspection: 2022/10/2

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	total			0			0.0% part of TC
B-climb	1	401	11	11	5.4 - 12.3	7.9	
	2	824	10	10	11.4 - 27.3	16.4	
	3	1,082	17	22	-13.0 - 19.6	6.0	
	4	1,617	13	13	4.1 - 17.0	9.8	
	5	2,411	13	13	8.8 - 13.3	10.6	
	total			69			65.7% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	total			36			34.3% part of TC
	total climb			105			