



International Ski Mountaineering Federation

Ranking regulations for International ISMF Ski Mountaineering Competitions



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1. INTRODUCTION

ISMF rules and regulations for international ski mountaineering competitions for world and continental championships, world cups and ISMF homologated races consist of a set of rules for the standardized organisation of ski mountaineering competitions.

The purpose of this text is to describe how competition rankings are established with regards to race results. This concerns the following rankings:

- International world rankings (permanent ranking);
- Continental and world championships;
- Continental and world cups;
- ISMF homologated races.

The ISMF calendar indicates the types and characteristics of competitions approved by the ISMF.

These rules apply only to ISMF rankings, and not to the rankings of similar events.

The full list of rankings is given in appendix 1.

The official text for *Ranking regulations* is published in both English and French. In the event of any contradiction, the English version will prevail.

1.1. Definitions

- **Sporting season:** from 1st July to 30th June. Any changes in rules voted in June by the PA will be applicable from 1st July and therefore for the season.
- **National Federation:** federation or association that represents ski mountaineering in its country, approved by the corresponding ministry or state department, approved by the federation sitting on the National Olympic Committee and member of ISMF.
- **Event:** describes all proceedings extending from LOC preparations to final results (candidacy, administrative and technical procedures, route marking, welcome, registration, inspections, races, podium, accommodation, meals, etc.).
- **Race:** describes a contest from start to finish.
- **Open:** race for competitors with no ISMF license, and taking a route different to that of the ISMF race (course B or C)
- **Competition:** all the races that take place during the event.
- **Competitors:** all persons participating in the race and the competition.
- **Time points:** these points depend on the ratio of a competitor's finish time and that of the winner given as a percentage for each race, used to decide between dead heats.
- **Place Points:** points attributed to a competitor depending on the results in a given race irrespectively of the race coefficient.
- **Race coefficient:** value attributed to the race depending on the previous ranking of the best athletes to finish.
- **Ranking points:** points attributed to individual competitors, teams or countries and used to establish their position in competition ranking.

1.2. Abbreviations

- UIAA: International Mountaineering and Climbing Federation
- ISMF: International Ski Mountaineering Federation
- PA: Plenary Assembly
- MC: Management Committee
- LOC: Local Organising Committee
- M: Men
- W: Women
- NF: National Federation
- WADA-AMA : World Anti-Doping Agency
- TAS : Court of Arbitration for Sport Lausanne (Ch)

Sprint World Cup Points

1	55	7	30	13	18	19	12	25	6
2	49	8	28	14	17	20	11	26	5
3	44	9	26	15	16	21	10	27	4
4	40	10	24	16	15	22	9	28	3
5	36	11	22	17	14	23	8	29	2
6	33	12	20	18	13	24	7	30	1

2.2. Time points

In order to decide between competitors or teams that have the same final ranking points (same final number of place points), race times will be taken into account. In the event of a tie, the final ranking will be determined by the addition of time points. Time points depend on the ratio between the competitor's time and the winner's time (percentage). If the competitor's time points are identical, then the tie will not be broken.

Time points are calculated as follows:

$$Px = T1/Tx * 100$$

Tx = time of the competitor or team X, in seconds

T1 = time of the winner (individual or team), in seconds

Px = Time points of competitor or team X

Times are to the second, and percentages to the nearest hundredth.

For example: Competitor A wins the race in 2 hrs 00'00", competitor B finishes second in 2 hrs 03'30" and competitor X is 30th in 2 hrs 15'45". The results of the race are:

A: place points = 100; time points = 100.00

B: place points = 95; time points = 7200 / 7410 * 100 = 97.16

X: place points = 51; time points = 7200 / 8145 * 100 = 88.39

3. RANKINGS

3.1. Continental and world championships

3.1.1. General principles

The rankings obtained in these championships are:

- Country ranking;
- Combined senior men's and women's ranking.

The race results that count towards championship rankings are:

- senior men's and women's team races;
- individual ski mountaineering races - men and women, senior, espoir, junior and cadet rankings;
- individual vertical race competitions - men and women, senior, espoir, junior and cadet rankings;
- sprint race competitions – men and women, senior, espoir, junior and cadet rankings;
- relay races - men, women and youth rankings.

At each event, teams (for team events) or single competitors (for individual events) accumulate place points (PPs).

3.1.2. Country ranking

Country ranking is calculated by summing the place points of competitors who count for country ranking

The number of competitors taken into account for country ranking and the coefficients allocated for each event are detailed in the table below.

For the espoir category, only PPs awarded in espoir ranking are taken in account.

For example, if during an individual event, an espoir finishes 1st in the espoir ranking and 3rd in the senior ranking and is 1st for his/her country in both espoir and senior categories, then his/her place points from the espoir ranking count with a coefficient of 1, whereas the place points of the senior competitors from the same country who finished 2nd count with a coefficient of 1.

Type of event	Individual		Team	Vertical Race		Relay		Sprint	
	Seniors Men & Women	Espoir, Juniors & Cadets Men & Women	Seniors Men & Women	Seniors Men & Women	Espoir, Junior and Cadet Men & Women	Seniors Men & Women	Youth relay event	Seniors Men & Women	Espoir, Junior and Cadet Men & Women
Coefficient	1	1	1	1	1	1	1	1	1
Number of competitors/teams that count towards country ranking, men and women	1	1	1	1	1	1	1	1	1

Country ranking points

= (sum of place points of the country's first individual male senior competitors)
 + (sum of place points of the country's first individual female senior competitors)
 + (sum of place points of the country's first individual male espoir competitors)
 + (sum of place points of the country's first individual female espoir competitors)
 + (sum of place points of the country's first individual male junior competitors)
 +... etc. -

Countries can tie.

3.1.3. Combined senior championship ranking

Combined senior championship rankings are calculated by adding the place points obtained by senior competitors (both for men and women) in individual ski mountaineering races, team races, vertical races and sprint races. In the event of a tie, the final ranking is determined using time points.

Senior men's combined ranking points = PPs for individual races + PPs for team races + PPS for Sprint races + PPs for vertical races.

3.2. Continental cups

3.2.1. General principles

The rankings obtained in continental cups are:

- Individual ski mountaineering continental cup rankings; senior, espoir, junior, cadet categories; men and women;
- Overall continental cup senior men's and women's ranking (combination of team and individual rankings).

The race results that count towards cup ranking are:

- Senior men's and women's continental cup team races;
- Continental cup ski mountaineering individual races; senior, espoir, junior, cadet categories; men and women.

N.B.: only competitors from the host continent are ranked in their continental cup.

Competitors from other continents can only participate in these races if they are open.

At each event, teams (for team events) or single competitors (for individual events) are awarded place points (PPs). The points gained by competitors in individual races do not count towards cup team rankings and vice-versa.

If the competitor and/or team are from the continent hosting the cup, then their place points count towards the continental cup ranking and permanent world ranking.

If the competitor and/or team are not from the continent hosting the cup and if the event is open, their place points count towards the permanent world ranking.

In order to be ranked in a continental cup, competitors/teams must:

1. come from the hosting continent;
2. have participated in at least one of the races that count for ranking.

3.2.2. Continental cup individual ranking

The winner of the individual ski mountaineering continental cup is the competitor who accumulates the most place points during the races of the individual cup event races in his/her category.

This is an individual ranking. In the event of a tie, the final ranking will be determined using time points.

3.2.3. Overall continental cup senior M/W ranking

The winner of the overall continental cup for senior men and women is the senior competitor who accumulates the most place points during both individual and team races of continental cup events.

This is an individual ranking. In the event of a tie, the final ranking is determined using time points.

3.3. World cups

3.3.1 General principles

The rankings obtained in a world cup are:

- Individual ski mountaineering world rankings; senior, espoir, junior, cadet categories; men and women;
- overall world cup ranking (total of points obtained in individual and team rankings) for men and women in senior, espoir, junior, cadet categories;

The race results that count towards cup ranking are:

- World cup team races for men and women in senior, espoir, junior, cadet categories;
- Individual ski mountaineering world cup races in senior, espoir, junior, cadet categories; men and women.

At each event, teams (for team events) or single competitors (for individual events) are awarded place points (PPs).

In order to be ranked in a world cup, competitors/teams must:

- have participated in at least one race that counts towards the world cup;
- be a current ISMF licence holder.

The points gained by competitors for individual races are added to those obtained during Team, Vertical or Sprint races to produce the overall ranking.

In the event of a tie, the final ranking is determined using time points.

For espoir, junior, cadet categories, men and women, ranks will be determined after at least 3 races.

3.3.2 Individual world cup ranking for seniors, espoirs, juniors and cadets, men and women

The winner of the individual ski mountaineering World Cup is the competitor who accumulates the most place points during the races of all individual cup events in his/her category.

All the races are taken into account for the calculation of the final individual ranking.

This is an individual ranking. In the event of a tie, the final ranking will be determined using time points.

Ranks will be determined after at least 3 races.

3.3.3 Vertical Race world cup ranking for seniors, espoirs, juniors and cadets, men and women

The winner of the individual ski mountaineering World Cup is the competitor who accumulates the most place points during all Vertical Race events in his/her category. All the races are taken into account for the calculation of the final Vertical Race ranking. This is an individual ranking. In the event of a tie, the final ranking will be determined using time points.

Ranks will be determined after at least 3 races.

3.3.4 Sprint Race world cup ranking for seniors, espoirs, juniors and cadets, men and women

The winner of the individual ski mountaineering World Cup is the competitor who accumulates the most place points during all Sprint events in his/her category. All the races are taken into account for the calculation of the final Sprint ranking. This is an individual ranking. In the event of a tie, the final ranking will be determined using time points.

Ranks will be determined after at least 3 races.

3.3.5 Overall world cup ranking for seniors, espoirs, juniors and cadets, men and women

The winner of the overall World Cup is the competitor who accumulates the most place points during the races of all Individual / Team / Vertical and Sprint world cup races.

It is an individual ranking. In the Senior category, the final ranking takes all the season's races into consideration.

In Espoir, Junior and Cadet Men and Women categories, the ranking will be based on at least 3 events.

This is an individual ranking. In the event of a tie, the final ranking will be determined using time points.

3.4. General principles for team races in World/continental Cups

Re: Teams - For rankings to be taken into consideration the teams must be formed as follows:

Men's team = team composed of:

- 2 men
- or - 1 man + 1 woman

(in which case, the woman cannot add the points obtained to the World Cup Classification or to the World Ranking)

Women 's team = team composed of:

- 2 women

Categories: In Team events only the following may participate as teams:

Senior Team = Senior and Espoir categories

Junior Team = Senior and Cadet categories

(In team races, a junior can team up with a cadet competitor but the cadet competitor cannot add the points obtained to the World Cup Classification).

Cadet Team = Cadets only

ISMF license: A racer holding a valid ISMF license who teams up with a racer who does not have an ISMF license for the current year, is not eligible to receive classification points.

Country: In team races the following applies:

- members must be the same nationality and belong to the same federation.
- All other team compositions will be rejected

3.5 Permanent men's and women's world ranking

3.5.1 Concepts and provisions

Permanent world rankings are established to represent sporting excellence.
This ranking is based on the results of senior men and women competitors over various ISMF ski mountaineering events.
This is an individual ranking.

3.5.2 Establishing the ranking

Throughout each sporting season, all senior competitors gain place points (PPs) for each event announced in the ISMF calendar. Each competitor's place points are multiplied by the event coefficient = value attributed to the race depending on the previous ranking of the best athletes to finish.

The ranking is updated following each event.
Points become void 1 year and 1 day after having been obtained.

3.5.2.1 Continental ranking

For continental ranking, only the following races are taken into account:

- Continental senior championship events;
- Continental senior cup events;
- Open events that take place on the continent in question.

Senior competitors are only ranked in the international ranking of their continent.

3.5.2.2 Permanent world ranking

All ISMF homologated races count for the permanent world ranking.
All competitors gain points (whether or not ISMF licence holders).

N.B. for continental championship and cup results: if the competitor and/or team are not from the continent and if the event is open, their place points count towards the permanent world ranking. If the event is not open, these competitors cannot register to participate.

3.6 Table summarizing relations between rankings and races

In appendix 1, the relations between the categories and events or rankings in which competitors can participate are detailed.

4. METHOD FOR CALCULATING RACE POINTS

Competitors start a race with a given number of points, obtained in previous races; these points are their "reference points".

Only competitors ranked upon arrival are taken into account.

Whether the race is an individual race or a team race, only individual positions are used (1 team = 2 individuals).

For men, calculations are based on the 20 best ranked competitors with the most points in the world ranking.
For women, calculations are based on the 10 best ranked competitors with the most points in the world ranking.

Using the World Cup point grid, the competitor coefficient is applied:

The total for the 20 first men is of 1480 points.

If the winner is among the 20 best of the World Ranking ranked upon arrival, he gains 100 points.

His competitor coefficient is $100 / 1480 = 0.0675675$

If the runner-up is among the 20 best of the World Ranking ranked upon arrival, he gains 95 points.

His competitor coefficient is $95 / 1480 = 0.0641891$

If the twenty-fifth to finish is among the 20 best of the World Ranking ranked upon arrival, he gains 56 points.

His competitor coefficient is $56 / 1480 = 0.0378378$

The total for the 10 first Women is of 825 points.

The coefficients of the 20 best men of the world ranking ranked upon arrival are summed.

If the 20 first men to finish are the 20 best of the world ranking, then the competitor coefficient for men is equal to 1.

By adding all their percentages, the race coefficient is obtained. This coefficient depends on the quality of the competitors that finish the race (maximum = 1.00).

The method for calculating time points is maintained.

The winner gains 100 points, the 2nd gains (winner's time / 2nd time) x 100.

Race points:

Race points are obtained by multiplying time points by the race coefficient.

There can be a tie.

5. RESULT MANAGEMENT / WORLD CUP RANKINGS / WORLD AND EUROPEAN CHAMPIONSHIPS

The ISMF Rankings Secretary is responsible for establishing world cup and world and European championship results and rankings.

He/she must:

- Update, with help from ISMF headquarters, computerized data on the competitors participating in events;
- Update, with help from ISMF headquarters, the rankings of previous races;
- Update official rankings (cups, championships, etc.);
- Post the ranking on the Internet and send a copy to the head of the judge's commission, the technical direction and ISMF headquarters;
- Provide LOCs with the list of competitors with licences from each National Federation a week before the competition and then again 24 hrs before the competition;
- Request help from LOCs to set up and coordinate the computerized system by which he/she can immediately receive the results of an event;
- Obtain computerized race rankings within the shortest possible time period;
- Supply a copy of race rankings to each person in charge of competitors from competing countries.

He/she must be present at:

- world cup finals;
- world and European championships.

On all other events, event organisers will hand the official ranking to the ISMF delegate or technical representative who will subsequently communicate it to the Rankings Secretary and ISMF headquarters at the end of the race by urgent e-mail.

6. MANAGEMENT OF PERMANENT WORLD RANKING

A person other than the ISMF Rankings Secretary will be in charge of updating the Permanent World Rankings.

He/she must:

- Update, with help from ISMF headquarters, computerized data on the competitors participating in events;
- Update, with help from ISMF headquarters, the rankings of previous races;



- Post the ranking on Internet and send a copy to the head of the judge's commission, the technical direction and ISMF headquarters;
- Request help from LOCs to set up and coordinate the computerized system in order to immediately receive results after an event
- Obtain computerized race rankings within the shortest possible time period.

Event organisers must communicate the official rankings to this person at the end of the race by urgent e-mail.

7. RANKINGS CLAIMS

ISMF technical direction will receive and deal with any claims concerning rankings. Claims must be submitted in writing by a National Federation.

The National Federation may appeal, according to the procedures stated in the disciplinary rules in the internal regulations of ISMF.



8. APPENDIX 1: RELATIONS BETWEEN THE CATEGORIES AND RACES OR RANKINGS IN WHICH COMPETITORS CAN PARTICIPATE IN SKI MOUNTAINEERING COMPETITIONS

	Cadet M&W	Junior M&W	Espoir M&W	Senior M&W
Individual Continental Cup Events	X	X	X	X
Individual Continental Cup Ranking	X	X	X	X
Overall Continental Cup Ranking	X	X	X	X
Individual World Cup Events	X	X	X	X
Individual World Cup Ranking	X	X	X	X
Team World Cup Events	X	X	X	X
Overall World Cup Ranking	X	X	X	X
Individual Continental Championship	X	X	X	X
Continental Vertical Race Championship	X	X	X	X
Continental sprint Championship	X	X	X	X
Continental Team Championship				X
Continental Relay Championship	X		X	
Combined Continental Ranking				X
Continental Championship Ranking by Country	X			
Individual World Championship	X	X	X	X
Vertical Race World Championship	X	X	X	X
Sprint World Championship	X	X	X	X
World Team Championship				X
World Relay Championship	X		X	
Combined World Ranking				X
World Championship Ranking by Country	X			
Continental Ranking				X
Permanent World Ranking				X
ISMF Homologated Races	X	X	X	X