

STEINBACH ALPIN

Snow- Depot



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Different degrees of snow hardness

Snow weight per m ³	
Natural snow	70 - 200 kg/m ³
Artificial snow	350 - 400 kg/m ³
Ice	900 kg/m ³
Water	1,000 kg/m ³
Snow depot quality	750 - 800 kg/m ³



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France, Le Grand Bornard



Sotchi, Alpika



Snow depot – Expertise

Steinbach Alpin has been gaining experience with snow depots for many years, and extensively tested various method of covering in both theory and practice.



For example, snow depots for the biathlon centres in Austria and France have been created, glaciers covered and the largest snow depots stored for the Winter Olympic Games in Sochi.



Important preparations for the snow depot



Search for the best positions taking into consideration the conditions during the summer months



Build up the snow cover layer by layer and regularly inject with the Steinbach injection beam



Optimal shaping of the snow depot with a snowcat and, if req., using manual labour



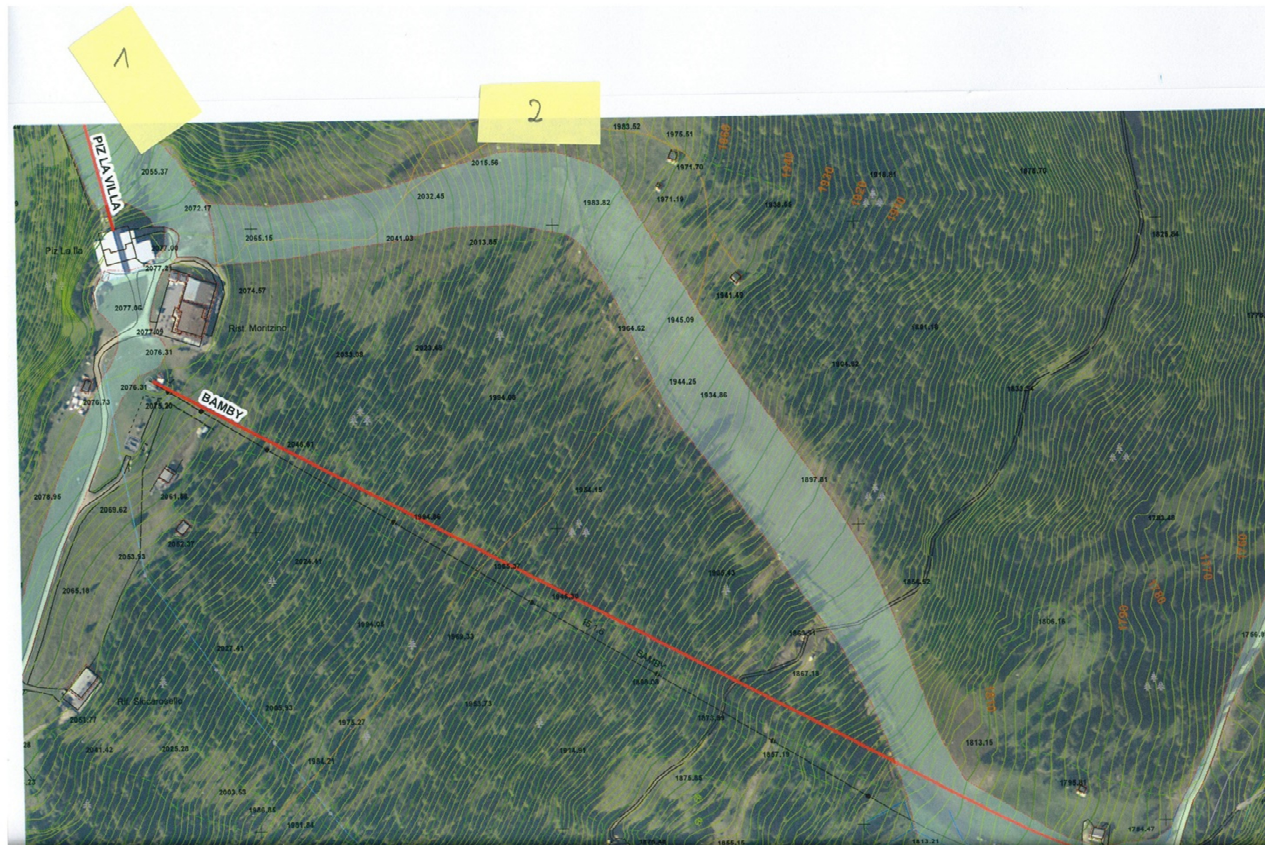
Cover the snow depot with customised covering and secure it with sand bags and Steinbach-anchor

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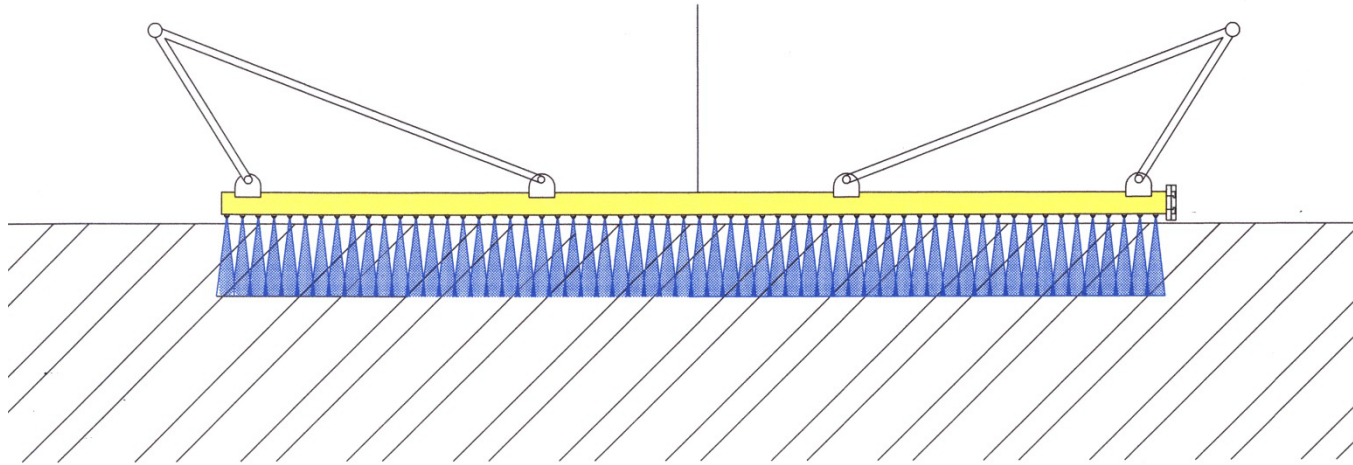
Snow depot location = Important planning

1 = North face
and proposal
Steinbach Alpin

2 = nearer to the
ski slope, i.e.
less work for
snowcats



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The prepared snow is comprehensively measured and then brought to the required volume weight using the injection beam





Advantages

-  Major energy savings, as the snow doesn't melt in spring and doesn't have to be produced with snow guns the next winter
-  Pioneering innovation and investment for the coming years, as the special covering can be used repeatedly.
-  The whole racing circus knows of the benefits of training at altitudes of approx. 2,000 m
-  The region becomes a trendsetter and gets a further tourism highlight, allowing it to stand out from neighbouring ski resorts

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Practice in New Zealand

Piste grooming by Steinbach Alpin

We create the opportunity to practice in Europe even in summer:

1. Enormous reduction in costs
2. No flights to Chile or New Zealand
3. No jet-lag
4. Same quality of slopes as in the World Cup
5. Familiar climate
6. Same snow texture



Technical execution

Unneeded natural snow is pushed together and stored as a foundation for the snow depot. Should the natural snow not be enough, the cold days can be used to make more snow using snow guns.



Steinbach Alpin recommends preparing snow of at least 8,000 m³ - 12,000 m³. The snow is then treated layer by layer with the injection beam, and covered with a special white covering once its reached a weight of approx. 800 kg/m³.

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For the Winter Olympic Games, the covered snow applied using a centrifuge and snowcat. Skiing is possible directly on the stored snow, no fresh snow is required.



If temperatures should be too warm, the piste can also be groomed with the injection beam making races possible even in temperatures above zero.

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COMMON

Artificial interference with nature →

Even with optimal coverage of the snow surface, the snow melts away very slowly. The snowmelt flows into the surroundings only in measured quantity, thus supporting healthy growth of the surrounding flora, especially on warm and dry summer days.

Irritation to wildlife →

Deer, hares and other animals in the vicinity have been found to observe the white surface with curiosity, then integrating it seamlessly with their natural trails.

CONCERNS

Cost-intensive →

The costs for covering are low, if compared to the income from tourism such as lift tickets, hotel rooms, restaurant visits, etc. The advertising effect, "In your region skiing is possible already in October", however, is of inestimable value.

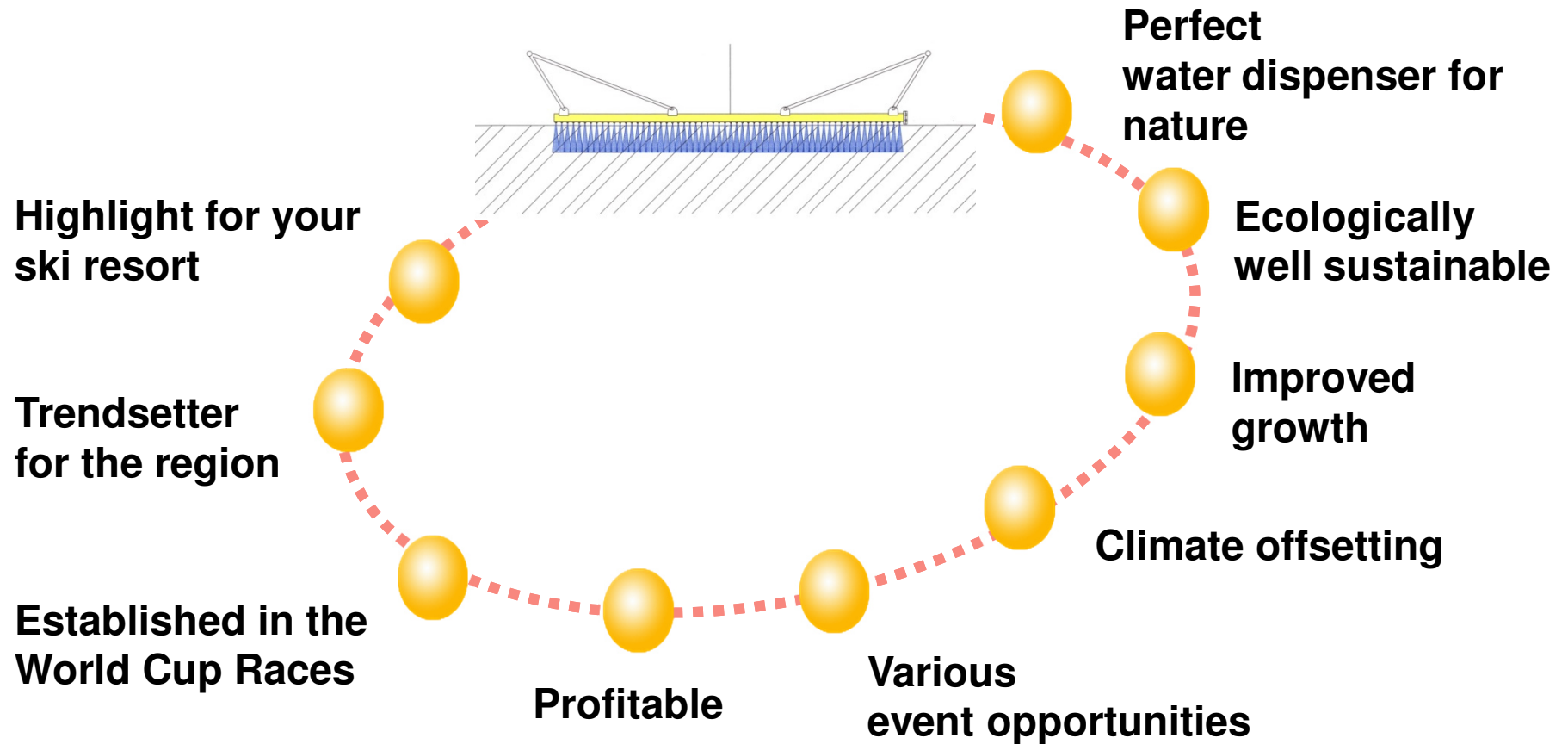
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- 1 100% high-grade PP geo-nonwoven
- 2 UV stabilized
- 3 Mechanically strengthened and thermally treated
- 4 Fluffy structure
- 5 Weldable
- 6 Our quality system is certified to the UNI EN ISO 9001
- 7 Successful such as Sochi, Italy, Biathlon Center in France, Germany, Austria ...

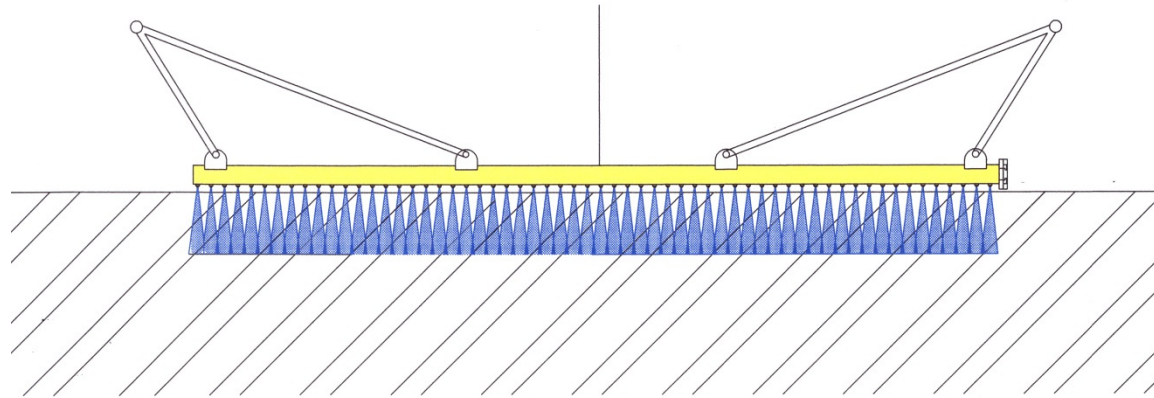
Steinbach SP 501-Snow
Special cover for
snow depot & glacier

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Summary



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Your innovative partner for snow and piste preparation since more than 20 years



STEINBACH ALPIN

Gitti Weber
Chief Executive Officer

Pass-Thurn-Straße 10
A-6372 Oberndorf / Kitzbühel



Christian Steinbach
Inventor and
Managing Director

Pass-Thurn-Straße 10
A-6372 Oberndorf / Kitzbühel