

# SOUTH SHORE<sup>DESIGN</sup>

TRAIL BUILDING COMPANY

since 2004

Today owning a MTB has become common, but what about adapted practice sites?

It is all too common to see new riders or even experienced mountain bikers, discouraged by the **lack of proper infrastructure**. Often **maintenance is neglected**, a **lack of diversity** and even more seriously; **safety is almost non-existent** ...

Since 2004, SouthShore Design, puts its **experience acquired in the renowned Canadian resort; Whistler and thereafter thru multiple challenging projects**, to the service of municipalities, communities, mountain professionals, associations as well as individuals. Providing our customers with **tailor-made, safe and fun** practice spaces for all riders whatever their level or skills.

**These references are the guarantee that SouthShore Design will make a point of achieving, in the best possible way, everything that is likely to generate good times** on “two” wheels, so that all can enjoy it to the fullest.

Turning any project to success.



## SOUTH SHORE DESIGN

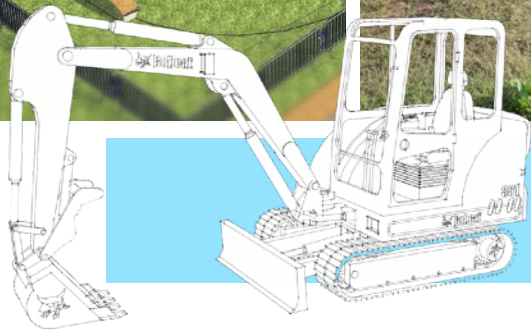
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Over a 100 amenities all  
around the globe



SouthShoreDesign is the assurance of a custom made facility following the highest trail “engineering” standards.



#### Our values

- Environmentally conscious.
- Use of locally sourced materials, like local quarries and lumber from native wood species.
- Landscape integration.
- Safety at every level , to promote skills growth while minimizing risks.
- Custom made.
- Sustainable maintenance techniques.
- Originality and entertainment for users.
- Following carpentry standards for all major structures.
- Safe working environment (safety equipment and work safety rules).
- Sustainability.
- Coherent facilities design, according to different criteria, such as:
  - Terrain characteristics (topography, geology,...).
  - Budget.
  - Land occupancy (private land, protected area,...).
  - Users/customers expectations (more technical tracks, jumps, flow,...).
  - Users/customers skill level.

«We design, we build, you enjoy !»



## SouthShoreDesign does

### **12 amenities;**

«**Free Zone**» blank canvas, free from any obstacles, low grade, facilitating control and safety surface.

**PumpTrack** the must have, to learn agility, bike handling, workout fitness and flexibility, all in one low risk and fun environment.

**Skill Center** area filled with dedicated technical features.

**Jump Park** (“dirt jump”) to learn and practice jumping techniques, in a safe controlled environment .

**Dual Slalom**, for «challengers» who want to improve their techniques or for competition.

**Bike Park** is the place where new mountain biking trends are developed, very popular with young riders.

The **Trail Center** is a zone that will see multiple disciplines practiced on one same small hill.

**XC** «easy» or «technical» the essence of MTBiking.

**All-mountain or Enduro** which brings together all the skills of mountain biking on the same downhill profile.

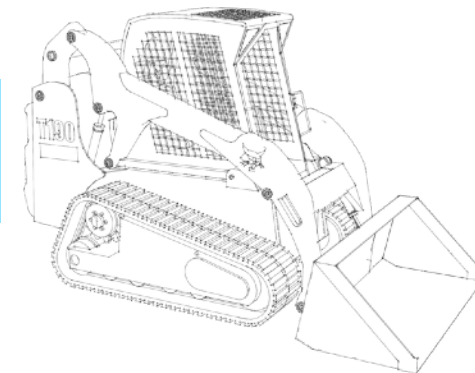
**Freeride/Freestyle** to satisfy adrenaline enthusiasts, in a safe controlled environment.

**SlopeStyle**, for events or sport progression.

**MTBPark**, a structure adapted to the operation of ski lifts.

Something to satisfy a wide variety of riders, **from the youngest** who need a **safe and evolving environment**, to the most experienced for **fun training** (as with the PumpTrack), through recreational mountain bikers, **passing through or for holidays**, who wish to discover the joys of mountain biking in complete safety and comfort.

**Dedicated sites**, equipped and **maintained**, to offer a **fun and friendly** experience in a controlled area, **nearby**.





## FREE ZONE

«Free Zone»... As in all sports it is a good idea to start at the beginning, and that means learning about the fundamental techniques of: position, pedalling, braking, balance, scanning and anticipation. For this, nothing is better than an open space, without any obstacles and whose ground allows "falls", without any consequences.

A flexible but "rollable" floor. With an area between 200 and 400m<sup>2</sup>, with a surface suitable for beginners hesitant progress. It must be raised above the other workshops and the surrounding ground, in order to avoid the "basin" effect.

A natural and resistant "grass" surface.

### Specs:

Pyramidal shape  
Natural materials, soil fill.  
Machine built.  
Hydroseeding.

installation: Approximately 3-4 weeks, depending on grass growth.

Area: 200m<sup>2</sup> to 400m<sup>2</sup>

Cost: starting from \$10 /m<sup>2</sup>





# PUMPTRACK

The "PumpTrack" is a very fun playground and training ground. The principle is simple, a closed loop composed from bumps or also called "rollers", followed by banked turns, called "berms", we evolve without putting the slightest pedal stroke. The basic method is to use the track movements, in order to gain speed, by "pumping", that is to say by the only transfer of the rider's center of gravity (weight of the body) forwards or backwards. The forces that act on the riders are only those that they manage to produce on their own. Thus, the requirements and technicality increase with the degree of know-how.

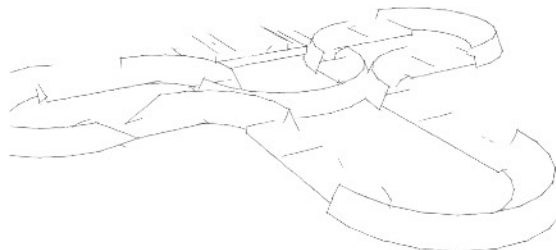
Making it the perfect initiation and training ground for mountain biking. It can be used without distinction of equipment, level or age.

It does not necessarily require large spaces, is built with high compaction mineral materials

(also used in road construction). It requires minimum maintenance; a simple sweep and periodic watering are enough to keep it in good condition so that everyone can enjoy it.

Options are available, such as; irrigation system and re-vegetation.

Its low cost and speed of installation in the basic version, make it the least risky investment to start a mountain biking dedicated infrastructure .



## Specs:

Natural materials, mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.



Installation: 1 to 2 weeks

Area: 350m2 to 1000m2

Cost: starting from \$8300



## SKILL CENTER

### «Skill Center»

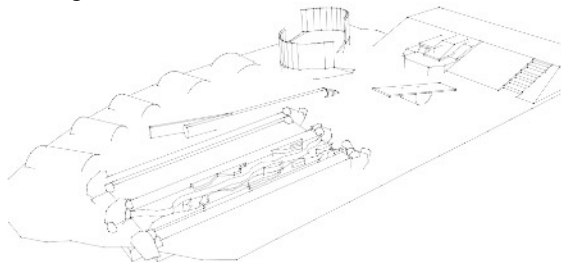
We build this as a natural progression in the evolution of practice, that is, from the easiest obstacles to the most technical obstacles. The area can therefore be approached in a fluid way (trail) or in the form of individual workshops.

Safety is the primary concern with this type of amenity, in order to allow riders to practice with confidence. All the obstacles allow possible failures, but also to progress step by step, without obligation of success. The banked turns will add a playful aspect to the area and extra practice.

The "Skill Center" must be in harmony with the landscape as much as possible, in order to

reproduce the excitement of practicing in nature.

Revegetation on these more aggressive surroundings will limit erosion and improve the visual appeal, but also the use of natural resources and materials such as; Naturally resistant tree species for timber modules, riprap with the type of stone available and appropriate in the region, or even making the best possible use of the geology and topology on site, these are, SouthShoreDesign's strengths. This in order to promote its integration into the environment.



### Specs:

Topology optimized.  
Natural materials, wood, rocks, soil fill, mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.

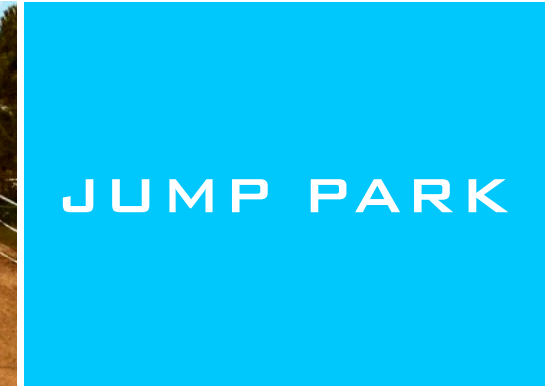


Installation : 2 to 3 weeks

Area: 600m2 to 1500m2

Cost: starting from \$18 800





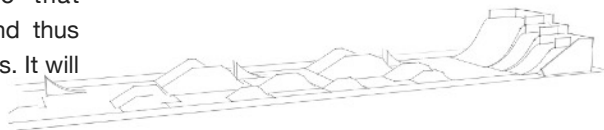
«Jump Park», mainly dedicated to young fans of aerial evolutions, it can also allow the oldest wishing to discover the joys of mountain biking called, “Dirt jump” or Freestyle, all in complete safety. This thanks to arrangements adapted to each level of riding.

It is made of a succession of "table" type jumps, which allows for any misfires, but also to progress step by step, without the obligation of success. The banked turns will add a playful side and progression.

Surrounded by other mountain biking amenities, it will be easily recognizable but must include specific signage, so that everyone can identify the difficulty and thus choose the line that best suits their skills. It will

be made up of “table”, “step up”, “step down” and “raised turn” type soil movements.

It can also be broken down and integrated to a “Pump Trail” track, its most suitable form for municipalities, thanks to skills selection . In fact, the "Pump Trail" does not have a start “launch pad”, but uses a PumpTrack, to generate the speed necessary to oncoming jumps. In addition, each jump determines the speed for the next. There is therefore a strong phenomenon of progression and selection, so we will not find a rider launching himself on a jump of which he does not have the level to succeed.



#### Specs:

Natural materials, Natural soil(depending on characteristics) or mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.



Installation: 2 to 3 weeks

Area: minimum 800m2

Cost: starting from \$12 500





# DUAL SLALOM

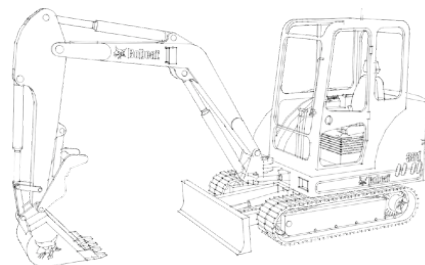
Often used to host competitions, a DualSlalom track is not very long; between 100 and 250m, but nothing prevents building a longer track. It looks a lot like a PumpTrack track, but definitely has to be sloping down.

Anyone can have fun there. Indeed the DualSlalom remains a very secure environment, thanks to its artificial design, we can master all the technical aspects. It can therefore be practiced by the greatest number whatever the bike. In addition, in the “out of competition” context, signage for technical areas can be put in place.

Its artificial architecture makes it possible to manage drainage, as well as the creation of raised turns (berms) and other obstacles (hop over logs, whoops, tables, double jumps, rock

garden, flat turns ...). Indeed, it is good to have a practicable track whatever the weather conditions, especially if you want to organize an event there.

Specs:  
Topology optimized.  
Natural materials, wood, rocks, soil fill, mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.



Installation: 2 weeks  
Length: 100lm to 250lm  
Cost: starting from \$17 200

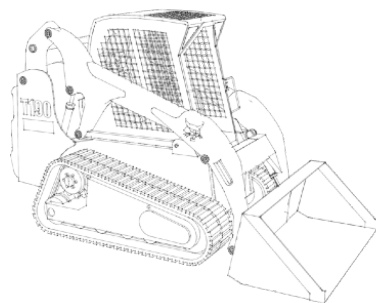


## BIKE PARK

The “Bike Park” is a space that aims to be peri-urban and which brings together in the same zone, several practices, therefore different amenities; such as the PumpTrack, the FreeZone, a Skill Center, or even a Jump Park. Often guiding new trends in practice, it can also include an XC, Enduro, Freeride course or even a SlopeStyle zone.

In fact the Bike Park is a complete package, intended to satisfy the greatest number of riders.

A Bike Park can be set up on a flat or sloping area, the topology will therefore determine the type of arrangements that can be made.



### Specs:

Topology optimized.  
Natural materials, wood, rocks, soil fill, mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.



Installation: depending on surface and set up

Area: 500m<sup>2</sup> to 50 000m<sup>2</sup>

Cost: starting from \$33 500





# TRAIL CENTER

The "Trail Center" is an original concept from England, it represents an area which will bring together different types of trails or tracks, on the same hilly location.

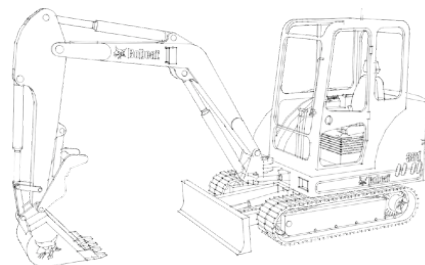
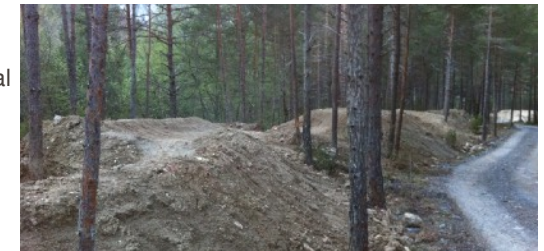
You have to imagine here parts of a hill, or a complete hill, with a network of various trails, starting with XC and declining towards Enduro, Freeride, or even downhill.

No ski lift on this facility, everything is done naturally ... By pedalling.

Climb routes of different difficulties allow access to the summit and others to come back down, so in a defined sector, it is possible to compose several loops and therefore allow riders to satisfy their crave for

fun and training. All in a suitable, maintained and secure environment.

Specs:  
Topology optimized.  
Natural materials, wood, rocks, soil fill, mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.



Installation: depending on specifications

Area: 3 ha to 20 ha

Cost: starting from \$20 000/km





XC

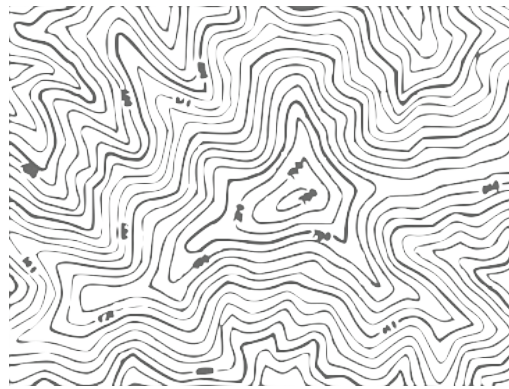
Based on the principles of XC (cross country), this mountain bike course will satisfy fans of pedalling, while keeping a fun and playful aspect to the ride. It can be in the form of a one stage or of loops that allow you to accomplish several laps by taking different paths.

XC is the basics to mountain biking, whether competitive or recreational, the pleasure of being able to evolve on a bike in a natural, suitable and secure environment is what every mountain biker looks for.

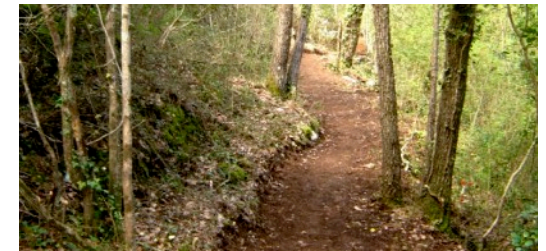
Often composed in the form of a single track path, it can be both directional or one way up then down loop. Therefore allowing multiple variants, very often natural, it can also be created from scratch, by adding obstacles,

such as steep slopes, rough areas and other obstacles that can be found during a mountain bike ride .

It will partly take up the tracks already present on the ground, but will be equipped with more or less technical natural variants (workshops), mainly composed of riprap, in order to maintain a natural appearance and to promote its integration into the landscape, while increasing longevity, by reducing maintenance.



Specs:  
Topology optimized.  
Natural materials, wood, rocks, soil fill, native soil, mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.



Installation: depending on length

Length: 1 to 50km

Cost: starting from \$10 000/km





# ENDURO/ ALL MOUNTAIN

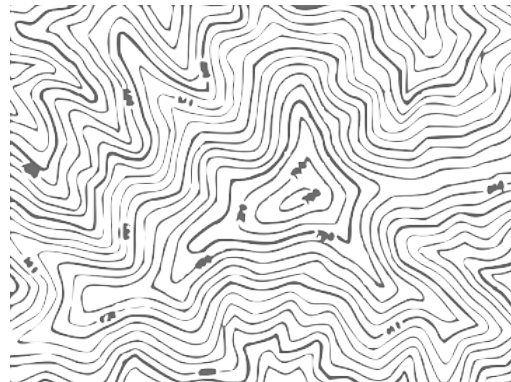
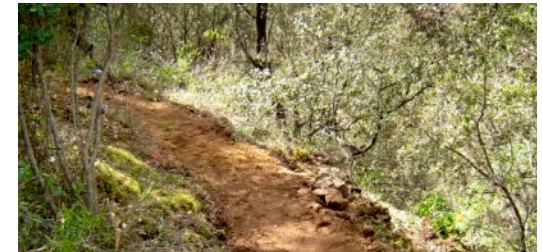
Based on the same principle as the XC course, it will however have a penchant for negative elevations.

This type of route is the current trend, often composed in the form of a single track route. It is less exclusive than DH (Downhill) and longer in distance and time. It can include climbs, but these shouldn't be too long. This type of track is very popular, especially in hilly areas or in medium mountains.

A constant slope dotted with some climbs; it is therefore often necessary to create these tracks from scratch, in order to obtain long descents, and thus to create a smooth flow. You can however start on existing tracks, but in general the course will be more physical and technical. Artificial obstacles can be added,

although it is best to keep the course as natural as possible.

Specs:  
Topology optimized.  
Natural materials, wood, rocks, soil fill, native soil.  
Machine built.  
Manual detailing.  
Hydroseeding.



Installation: depending on length

Length: 1 to 15 km

Cost: starting from \$20 000/km





## FREERIDE/ FREESTYLE

Fun and thrills;

Modelled on the famous British Columbia trails, the famous "North Shore" (Canada), this type of course will satisfy fans of new mountain biking trend, while keeping the safety aspect. Allowing to perform various figures on several natural or wooden structures, planned and fitted to this purpose. We can find two types of course in this category; the first as a single track trail and the second wider, with a lot of grade reversal using machines to create jumps and berms (banked turns), but in both cases the profile is downhill. Composed of multiple variants, very often natural, they can also be created from scratch, by adding technicality, such as steep slopes, rough areas and other dedicated

natural obstacles that can be found during a mountain bike ride, or even wooden bridges.

These features which have proved their worth; mainly in riprap, in order to preserve a natural appearance and to promote its integration into the landscape, but also to improve maintenance and longevity. Wooden obstacles (use of local species, with naturally resistant properties) can also be set up along the course, such as a "log ride" (trunk on which you ride) or different forms of bridges, using to its maximum what the terrain has to offer.

Specs:

Topology optimized.  
Natural materials, wood, rocks, soil fill, native and mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.



Installation: depending on length

Length: 500m to 5km

Cost: starting from \$25 000/km





# SLOPE STYLE

The SlopeStyle course is the equivalent of ski resorts TerrainPark. A place dedicated to "freestyle", tricks of all kinds. Composed of natural or artificial obstacles and various difficulties.

classics, but it is a place where the creativity of structures and lines takes precedence. Very popular with the young generation of riders, it will allow them to practice safely in a space that will meet their expectations in terms of choice and technicality.

**Specs:**  
Topology optimized.  
Natural materials, wood, rocks, soil fill, native and mineral fill.  
Machine built.  
Manual detailing.  
Hydroseeding.

Whether this area is in the form of a path descending a hillside or a dedicated area, it will satisfy all "freeride / freestyle" enthusiasts. In fact, progressive features make it possible to welcome beginners in complete safety, but also to see much more experienced riders evolve alongside, such that it will make them want to progress and come back.



The very essence of SlopeStyle is to offer one of a kind features, which cannot be found as such in nature. Wall Rides, StepUp, Drops, Boxes, Gaps, StepDown, are among the



Installation: 3 to 4 weeks

Area: 5000m2 to 15000m2

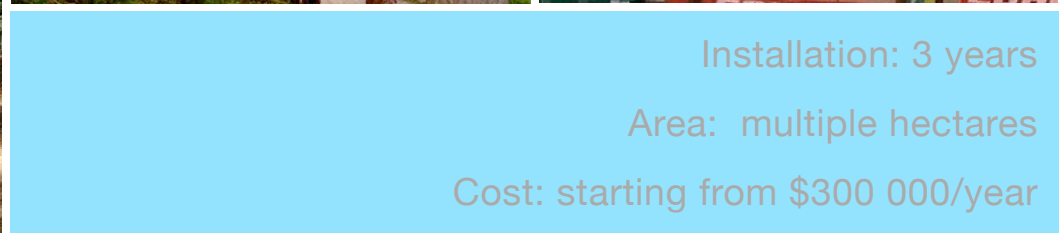
Cost: starting from \$45 000



The “Mountain Bike Park” is the equivalent of the Bike Park, suitable for mountainous environments and more particularly for ski resorts.

Indeed, it is the form of mountain biking development, the most profitable for investors, due to the frequentation it generates during the summer period, it allows to increase the passages and therefore the profits at the ski lifts, but also generates a lasting activity in the resorts, it makes it possible to fill real estate rentals and operate shops.

The MTBP is an infrastructure which today makes it possible to achieve a profit ratio equivalent to ski business, and this over a season that previously could be slack.





SouthShoreDesign

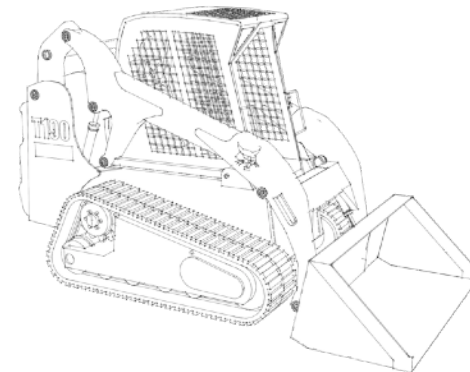
*4 area of expertise;*

**sustainability /  
maintenance /  
safety**

**Wooden structures /  
custom man made features**

**Events**

**HydroSeeding**





SUSTAINABILITY  
MAINTENANCE  
SAFETY

Years of experience have enabled us to acquire a multitude of maintenance techniques, whatever the case, we will offer a tailor-made solution, which will allow you to take full advantage of your infrastructures. Indeed these may have aged and no longer meet rider's expectations, or even became unsafe.

After a careful site visit, we draw up a report including proposals for work and improvements to rehabilitate the infrastructure. It is then possible to move on to the construction and monitoring phase.

We also offer maintenance training.



Installation: depending on project

Area: to be determined

Cost: depending on tasks



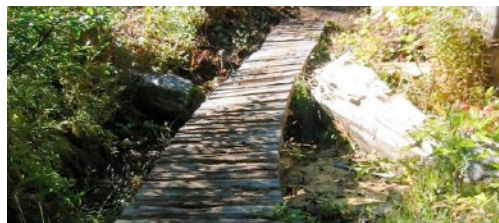


## WOOD FEATURES

It is important to have the right feature in the right place. We are seeing more and more wooden structures, very often created hastily or on the basis of a "prefabricated" catalog, which is why we offer "custom-made" and therefore unique products. Coherent constructions, respectful of the implantation site and which will meet riders' expectations, whether they are beginners or experts.



Specs:  
Topology optimized.  
Natural materials, locally purchased.  
Traditional carpentry standard.



Installation: depending on project

Area: to be determined

Cost: depending on tasks



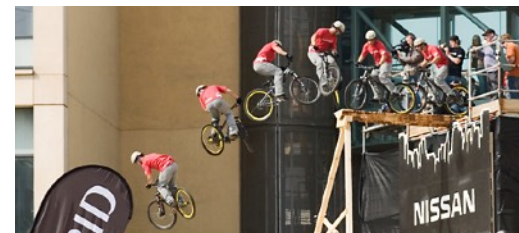
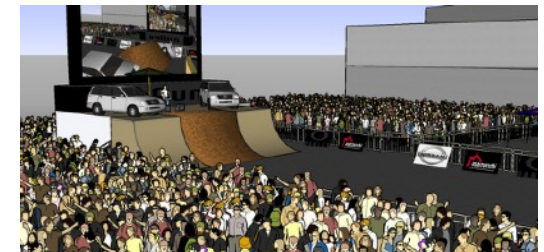


# EVENTS

The event, whether urban or in a natural environment, in the form of a competition or a show, is an excellent medium for communication and entertainment. In addition to other events or as a main attraction, it will make you known and put you forward through all types of media.



Specs:  
Adapting to territorial restrictions.  
Short installation time.  
Site restoration and clean up after event.



Installation: depending on project

Area: to be determined

Cost: depending on tasks





## HYDRO SEEDING

Thanks to a 500 liter SCHEIER water seeder, SSD is able to carry out all the revegetation operations by hydraulic seeding. This technique, also called "hydroseeding", consists in projecting on the ground to seed a complex composed of water, seeds, organic or mineral fertilization and natural bonding agents.

This technique is suitable for:

- the realization of sodding / lawns.
- stabilization, protection and control against superficial erosion of slopes and soils.
- the restoration of the biodiversity of ecologically degraded spaces.
- permanent groundworks.
- the landscape integration of redesigned sites.

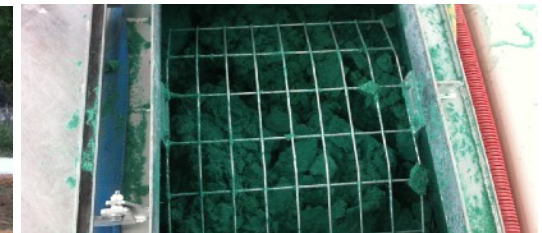
The plant varieties are carefully selected in order to adapt to the constraints of the treated sites.

The fibrous membrane, implemented by hydraulic spraying, aims to stabilize the soils and limit their erosion before and during growth, eventually to obtain a perennial plant cover.

This method of implementation allows the projected layer to perfectly match the micro-relief of the soil and to provide protection against erosion due to heavy rains (impact of drops and runoff) and that, from the installation.

Up to 75 ° slopes, coated or not with topsoil, hydroseeding will provide vegetation cover, where traditional seedlings are ineffective.

Thanks to its mobility, any site can be handled quickly, up to 5000m<sup>2</sup> per day.



Installation: Depending on area

Area: from 400m<sup>2</sup>

Cost: starting at \$8/m<sup>2</sup>



Some of our clients:

