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## **DiscGolfPark Services**

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- Professional course design
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## **DiscGolfPark Products**

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- InfoBoard
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### **Disc Golf**

- What is Disc Golf?
- Disc Golf in Finland
- Basic rules of Disc Golf
- Disc Golf course classifications
- Additional info



## What is DiscGolfPark<sup>®</sup>?

DiscGolfPark<sup>®</sup> is a unique disc golf course concept developed in Finland. It is based on the idea of building sports facilities in an environmentally friendly way. This folder containts useful information for both disc golf course developers and users.

DiscGolfPark is a trademark owned by Innova Champion Europe Ltd. It is a complete solution for establishing a disc golf course. DiscGolfPark concept includes professional course design and all equipment needed to build a versatile, interesting and safe disc golf course. Read more about the DiscGolfPark concept in chapter 3. For more information about the DiscGolfPark products, see chapter 4.

## Disc Golf

Disc Golf is one of the fastest growing new sports in Europe. At chapter 6, you can read more about the sport itself.



## Our DiscGolfPark ideology is based on following values:

## 1) Naturality

Establishing a DiscGolfPark should not require big changes on nature. Disc Golf is a sport of ecology in terms of making the courses and playing the game. Our ideology in DiscGolfPark design is that the course should be established with as few nature changes as possible to create a challenging course for players of all skill levels.

## 2) Diversity

A well-designed disc golf course suits players of all levels. Disc Golf is a sport that should offer challenges for all types of players. We plan and design disc golf courses with experience of dozens of years. Our principles in course design are balance, fairness and safety.

## 3) Affordability

DiscGolfParks are easy and fast to establish. A 18-hole DiscGolfPark costs less than half of for example a tennis or basketball court. A disc golf course of this size can entertain up to 90 players simultaneously, making the cost per user very low. Disc Golf is a low cost and fun sport, which is why its popularity is growing fast.





### 10 Reasons to Acquire a DiscGolfPark

- 1 Disc Golf courses are inexpensive to acquire and build; a 9-hole disc golf course costs just a few thousand euros.
- 2 A disc Golf course can be established practically everywhere.
- 3 Disc gGolf is suitable for all ages and both sexes.
- A disc golf course gathers fast active club members, who are glad to maintain and develop the area voluntarily.
- 5 Disc Golf is an inexpensive hobby it only takes about 20-30 euros to get you started.
- 6 Areas that have suffered from vandalism, tend to get better through establishing a disc golf course in the area.
- A 9-hole disc golf course has a capacity of almost 50 players, whereas 18-hole course has a capacity of almost 100 players.
- 8 A good and challenging disc golf course flocks players from surrounding municipalities and cities.
- A well-designed and maintained pay-to-play disc golf course in the right location will pay itself back in just a few years.
- Disc Golf can be a lifetime hobby!







## Product Warranty



DiscGolfPark products are manufactured under strict rules. DiscGolfPark products are designed to endure even the harshest weather conditions.

We grant a 10-year warranty to all steel bodies of our products and a 3-year warranty for DisCatcher chains. The warranty begins on the day of receiving the product under the warranty conditions described below. In warranty issues we follow requirements defined in consumer protection laws.

### Warranty Conditions

- 1. Manufacturer-defined warranty starts on the day of receiving the product.
- 2. The warranty covers deviations caused by material and manufacturing flaws.
- 3. In warranty issues, please contact the seller or representative of the product.
- 4. The warranty does not cover flaws caused by erroneous installation or assembly of the product.
- 5. The warranty does not cover flaws caused by:
  - missing or incomplete maintenance of the product,
  - use of other than original parts,
  - erroneous repair or modification in product structure without manufacturer's written consent,
  - normal wear and tear.
- 6. Flaws or defects in such products or parts that require regular maintenance after receiving the product, are not covered by the warranty. In case the flaw or defect exists after professional care, the flaw or defect will be covered by the warranty.
- 7. Small deviations that do not affect the product's strength or usability are not covered by the warranty. Such deviations may include small spots in paint, grains in hot-galvanized parts or other surface deviations that are caused by weather changes or otherwise normal use. Flaws covered by the warranty do not include abnormal use of the product. Flaws caused by transport or incorrect storage of products are not covered by the product warranty. Product warranty does not cover indirect damage caused by a flawed part.

DiscGolfPark products are delivered as parts and elements together with installation & assembly and maintenance instructions. Please read more on installation and maintenance in chapter 5: Installation & Maintenance.



## 🗜 DiscGolfPark®

### References

References pla op

We have delivered hundreds of disc golf course projects. Our goals are satisfied customers and players. The design of a good disc golf course is a demanding job and we take it seriously. In our opinion the best feedback is a satisfied client. Please find below some of our customer comments.

TEHTY SUOMESSA

"Kyyjärvi DiscGolfPark has been one of the most remarkable activator for healthcare sports in our municipality. The course itself has had a lot of positive feedback also among active players. The greatest thing about our DiscGolfPark is that is has activated all the residents no matter what age they are."

Niklas Vuorenmäki, Sports secretary in the municipality of Kyyjärvi, Finland

## 

"We established a 9-hole DiscGolfPark in the vicinity of the school of Salmela in Sotkamo in 2012. Our pupils play disc golf both on breaks during the school day and in their free time. Our course is a good place to get familiar with disc golf, and when there's a need for bigger and more challenging DiscGolfPark - we have also them close by. The whole package with the opening ceremony by Innova Europe was an excellent liftoff for disc golf in Sotkamo!"

Helka Leimu-Pelkonen, Director of Sports&Leisure in the municipality of Sotkamo, Finland

## \*\*\*\*

"Dealing with Innova Europe was professional and easygoing. Tehtaanpuisto DiscGolfPark has provided a lot of positive appearance and movement in Rautjärvi. I've heard from many sources that the disc golf course is the best sports deed for a long time."

Marjut Rita, Physical Education Instructor in the municipality of Rautjärvi, Finland



## **Our Services**

#### **Our Unique Services**

For the clients of DiscGolfPark solution there are plenty of services available. From mapping out the course area to course installation and opening ceremony, including the all-important course design. We deliver projects even on a tight schedule.

#### **Dozens of Years of Experience**

Our DiscGolfPark designers have dozens of years of experience in delivering popular disc golf courses. Benefit from our expertise and order a course mapping or a disc golf event today!





## Why Professional Course Design?

#### The Safety of the Course

Safety is the essential requirement of a DiscGolfPark. The use of the whole area is taken into account in design. Safety issues are clearly represented on the course signs. On the tee of each hole, specific safety issues are mentioned on the TeeSign.

The goal of professional course design is a DiscGolfPark that is both safe and serves players of different skill sets. We always discuss the course features to be designed together with you.

Disc Golf is often played on an area that has also other uses. There can be jogging paths, dog parks or roads. Disc Golf is a game with an easy starting threshold, as it does not require accomplishing a green card familiar from golf. On the other hand, this means Disc Golf is being played by players of varying levels in skill and experience.

A Disc Golf disc is a fast-flying object and it may cause damage when hitting people or objects. The possibility for accidents cannot of course be completely excluded, but with professional design the risks will be minimized. It is important to design the holes so that the safety of the other use of the area as well as other disc golfers will not be compromised. In the design the whole area is taken into account.

## Varying and versatile holes make a good disc golf course.

Playing is interesting when the holes require different types of throws. On a good disc golf course the holes vary when it comes to their length, shape, vegetation and possibly elevation. We also take the aesthetics of the area into account to ensure an enjoyable playing experience.

Our designers have a long experience on playing different types of courses across the world. They have also delivered many of the most popular disc golf courses in Finland, which have hosted several world-class disc golf events.

#### The Principles of our Course Design:







## **Mapping Service**

Our mapping service means getting to know a potential DiscGolfPark area prior to actual design phase. Mapping is needed if the area's suitability for disc golf is not certain. We can map three areas during one day in the same city. As a result of mapping we will produce a report, in which the areas to be mapped out are accurately analyzed.

The issues reviewd in mapping are: safety, other use of area, the structure of the soil and vegetation. The goal of mapping is to make sure that an excellent DiscGolfPark can be delivered in the area.

#### Mapping includes:

- Review of the area (amount of holes, classification of the course, users, other things needed to be taken into account)
- Mapping the terrain and its special features
- DiscGolfPark cost estimation





## **Design Service**

DiscGolfPark is Europe's leading disc golf course product. Our designers have a long experience on playing different types of courses across the world. We deliver over 100 disc golf courses in Europe each year. Professional course design is an important factor in ensuring a long-lasting popularity of a disc golf course. DiscGolfPark course design consists of three phases: evaluation of the project, course design and drawing the maps.

#### **DiscGolfPark Design Includes:**

- Approval of mapping the area
- Approval of budget
- Course design in location (1-10 days)
- Defining hole lengths and par numbers
- Creating a score card and course map
- Disc golf rules for the InfoBoard
- Designing and drawing TeeSigns
- Designing and drawing of InfoBoard

Prior to actual course design we will go through the area with a person who is familiar with it. The goal is to take into account the area's terrain, vegetation, possible specialities and other use. After this our designer measures the hole lengths and defines par values for each hole. In the last phase the sketches are drawn into maps and signs in our office.

#### **Interesting Holes**

Varying and versatile holes make a good disc golf course. Playing is interesting when the holes require different types of throws. On a good disc golf course the holes vary when it comes to their length, shape, vegetation and possibly elevation. We also take the aesthetics of the area into account to ensure an enjoyable playing experience.

With this approach the area will be taken into use the best possible way according to the agreed plan. As our customer, you will get the best out of your disc golf course.

When designing an 18-hole DiscGolfPark we normally use 2-5 days. 9-hole DiscGolfPark is usually designed in 1-2 days.



## Design Principles and Safety Distances on a Safe Disc Golf Course

#### **Design Principles**

- Disc golf target will not be installed too close to a residence, pathway, playground, etc.
- Throw directions are planned so that stray throws cause as minimal harm as possible.
- Holes are not planned crossing cycleways, pathways or roads.
- Holes are planned so that they cross with each other as little as possible.

#### **Safety Distances**

Target's minimum distance from a residence/lot	50 m
Target's minimum distance from buildings,	
motor roads and playgrounds	20 m
Tee's minimum distance from buildings,	45
roads and playgrounds	15 m
Target's minimum distance from tee	15 m
Target's minimum distance from pathway	5 m

It's important to mark the safety instructions on the InfoBoard and TeeSigns.

- On the InfoBoard the course instructions along with disc golf rules and etiquette are displayed.
- On the TeeSign on each hole, the possible safety issues are mentioned.



DiscGolfPark





## **Opening Ceremony of a Disc Golf Course**

### The Popular Opening Ceremony

When a DiscGolfPark is taken into use, it's time to celebrate! A new disc golf course is opened for use effectively in an opening ceremony. Invite all members of your community, including people from local companies and media.

Our opening ceremony is a carneval-like event and it consists of disc golf presentation, throwing tips, show throws, contests and equipment sales. In the event, disc golf will become known to everybody and plenty of participants find a new hobby. We take care of every detail of the event and bring the necessary equipment with us. The organizers are disc golf professionals. An example of a program of an opening ceremony:

09.00 - 12.00	Training of school groups
13.00 - 16.00	Training of town employees
16.00 - 16.30	Speeches and show throws
16.30 - 19.00	Opening competitions, during which
	Disc Golf presentations and playful
	contests





## **Disc Golf Day**

## **Disc Golf Day**

In addition to the opening ceremonies we organize Disc Golf Days. They are for people to have a good time together and get to know Disc Golf. We organize Disc Golf Days for many types of groups: municipalities, schools and different summer events.

The event includes for example Disc Golf presentations, trainings, throwing tips, show throwing and competitions. We take care of every detail of the event and bring the necessary equipment with us. The organizers are disc golf professionals.

#### An example schedule of a Disc Golf Day:

10.00 - 12.00	Disc Golf presentations for schools or town
	employees
13.00 - 16.00	Games and skill contests
17.00 - 18.00	Show throwing and disc golf demonstration
	for town residents.







## **Disc Golf Courses**

## **Training Services**

We offer basic and advanced courses for Disc Golf. Our courses are concentrated on coaching Disc Golf throwing technique, playing skills, disc golf's rules and history. We also train for organizing competitions and events.

#### An example of a Disc Golf course content:

Morning inside (at 8-11 o'clock)

History of Disc Golf Rules of Disc Golf Disc Golf equipment How to organize events?

Lunch break 1 h (at 11-12)

Afternoon in practise training 4 h (at 12-16)

Aerodynamics and flight characteristics of a disc Backhand throw Sidearm throw Putting techniques









### **DiscGolfPark is suitable for**

- + Players of all skill levels
- + School and group exercises
- + Organizing Disc Golf competitions

#### The Most Popular Disc Golf Course!

DiscGolfPark is a unique disc golf course concept developed in Finland. It is based on the idea of building sports facilities in an environmentally friendly way. DiscGolfPark is the most popular disc golf course concept in Europe. DiscGolfPark provides great experiences for players of all skill levels: from a beginner to a competitor. By investing in a DiscGolfPark you will get a lot in return for years to come!

#### DiscGolfPark includes:

- Professional course design
  Official DisCatcher targets
  InfoBoard course information board
- TeeSign hole information signs
- TeePad tee pads
- Drawing course and hole maps
- Course classification\*
- Instructions for installation and maintenance

\* Course classifications tell about what the course consists of and how it's equipped. Read more about course classifications in chapter 6. Disc Golf.

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A disc golf course can even be set up in forests

#### Make the Best Use of a New DiscGolf-Park!

Often the best way to gain popularity to a new DiscGolf-Park is holding an opening ceremony at the course. This way the new sports facility gets opened in the most effective manner. Opening ceremonies and disc golf trainings are examples of our additional services.

## - Inexpensive Sport Facility Construction

TeePad makes playing more safe

One of the most significant benefits of a DiscGolfPark is its affordability. The total cost of a DiscGolfPark is only a fraction compared to traditional sports facilities. For example, a 9-hole DiscGolfPark can be established with a budget under 10 000 euros.

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## School DiscGolfPark



#### A New, Exciting Sport to Schools!

The purpose of physical education in schools is to provide students with versatile and fun possibilities, which could even lead to a long-time hobby in sports. The best forms of exercises are the ones that make you compete against yourself but can be enjoyed with friends.

School DiscGolfPark offers students a new and interesting form of excercise for the physical education classes. A course suitable for schools can be designed even on a small area, for instance on a school yard. Furthermore, the costs of a School DiscGolfPark are lower than those of regular DiscGolfParks.

School DiscGolfParks consist of either 3 or 6 holes.

## Examples of sports facility costs

**3-hole School DiscGolfPark** 2 000 €

Basketball baskets 2 000 – 3 000 €

All-round rink 20 000 – 50 000 €







#### 3- hole School DiscGolfPark includes: INFO **Design Services StarterSet DisCatcher** TeeSign Targets, 3 pcs Hole information signs, 3 pcs Designing and map drawing Discs and rules 6- hole School DiscGolfPark includes: INFO **Design Services DisCatcher InfoBoard** TeeSign **StarterSet** Targets, 6 pcs Course information Hole information, 6 pcs **Designing and** Discs and rules map drawing School DiscGolfPark-concepts School DiscGolfPark-recommendations: also include: 3-hole School DiscGolfPark area should be minimum of 50 x 100 meters 1-2 h teacher training 6-hole School DiscGolfPark area should be 30 pcs student discs minimum of 100 x 100 meters Equipment carrying bag

School DiscGolfPark is suitable for:

- + School and group exercises
- + Beginners and families

We recommend TeePads to be used with School DiscGolfParks. (See part 4)

🗜 DiscGolfPark





## School DiscGolfSet includes:



#### **Tee Markers** Light weight markers, 6 pcs



StarterSet Discs and rules

#### School DiscGolfSet:

School DiscGolfSet is the perfect solution for schools that don't have yard that fits a permanent course. You can store the foldable and lightweight DisCatcher Travelers even in a classroom closet. The set also includes light weight plastic tee markers to mark the teeing area for the holes. A Starter-Set-equipment bag is also included, which can be used to store the 30 student discs. You'll also find the rules to disc golf in this School DiscGolfSet.

#### School DiscGolfSet includes:

- DisCatcher Traveler-targets, 3 pcs
- Tee markers, 6 pcs
- 30 student discs
- Rules to disc golf
- Equipment carrying bag









StarterSet Discs and rules

#### School DiscGolfSet Lite:

School DiscGolfSet Lite is an alternative solution for schools that don't have a yard that fits a permanent course. This set includes the new light weight Discmania Lite Baskets. School DiscGolfSet Lite also includes a Starter Set-bag with 20 student discs and rules for disc golf.

#### School DiscGolfSet Lite includes:

- Dismania Lite Basket-targets, 3 pcs
- 20 student discs
- Rules to disc golf
- Equipment carrying bag





# **DisCatcher**





#### Body: Warranty 10 years

The body includes the target pole, basket part and the yellow chain rack. The pole is hot-dip galvanized iron. The yellow chain rack and the basket are galvanized and powder-coated.

#### Chains: Warranty 3 years

The chains are galvanized and 6 mm thick. Hot-galvanization ensures a long-lasting protection against corrosion and provides a sticky surface on the chain. These both are essential features for a competition level Disc Golf target.



## **DisCatcher**

### **DisCatcher targets**

The target is the most important component of a disc golf course. This is why we have put a lot of effort to it. During the last five years, the DisCatcher target has found its place on over 3000 disc golf holes across Europe. It has become the most popular disc golf target. This highly visible eye-catching target has everything that is needed from a competition level basket - and it stands the test of time. The DisCatcher is manufactured in Finland and it has been granted The Key Flag Symbol.

- Bright yellow chain rack improves visibility in all conditions and knocks down high putts.
- Official, PDGA (Professional Disc Golf Association) approved target.
- 28 chains configured in two tiers for superior catching
- The chain rack and the basket are galvanized and powder-coated.
- The pole is hot-dip galvanized.
- A flag option on top
- Available as a permanent and portable version
  - 10-year body warranty

DisCatchers are available in custom colors (minimum order size 18 pcs). Please ask for an offer from your representative.

### Accessories

- Portable foot
- Boncrete base
- Rock base
- Flag







# **DisCatcher**







Installation and Assembly

#### For installation you need:

- Concrete base and plastic rings
- Installation sleeve (included in regular delivery)
- 5 mm and 8 mm hex keys (included in regular delivery)
- Digging equipment and gravel

The concrete base used in installation is not included in the standard shipment of the DisCatcher. Concrete base suitable for installation is 500 mm in height and weighs about 30 kgs. They can be found in every concrete factory and are usually used in traffic sign installation. An essential part of a concrete base are plastic rings to tighten the pole. For installation you need also digging equipment and gravel.

DisCatcher target is shipped in four parts: the chain rack, basket, center pole and installation sleeve.

Please study installation and

maintenance instructions in chapter 5: "Installation and

Maintenanc

In assembly you will need the included 5 mm and 8 mm hex keys. All the bolts needed in assembly are included in the shipment. For permanent installation you will also need digging equipment and gravel. The target's yellow chain rack is attached to the hole at the end of the pole. The basket part is attached to the hole approximately in the middle of the pole. Always attach the bolt first and then tighten the part with the separate bolt on aside. It is good to tighten all the bolts after a month of usage.



# **InfoBoard**





InfoBoard

## InfoBoard

InfoBoard is the eye catcher at the beginning of a disc golf course. InfoBoard presents the course as a whole offering information on each hole and covering every important detail on the course. Rules and guidances are easy to describe on it. InfoBoard is manufactured in Finland and it has been granted The Key Flag Symbol.

•	Powder-coated metal body (Ø50,8 mm)
•	Width 1170 mm, height 2500 mm (2000 mm from ground level)
•	Board size 1050 x 70 mm
•	Board background powder-coated metal
•	UV-protected and laminated map on aluminum
•	Installed on a separately ordered concrete base
•	10-year framework warranty

InfoBoard is designed to match your needs. It can be colored according to your wishes and even specific logos can be added to it. To help navigating on your course, ask for more signs from your course designer!

#### Framework: Warranty 10 years

The framework includes the body and the supporting metals. All parts are powder-coated metal. Please see detailed warranty conditions in chapter 1: Warranty Conditions.

#### Map: Warranty 3 years

Product Warranty

The map is made of teflon-laminated and UV protected sticker print that tolerates frost. Please see detailed warranty conditions in chapter 1: Warranty Conditions.

## Accessories

- concrete base
- available with a rock
- base too







# InfoBoard







#### For installation you need:

- 2 pcs of concrete bases and installation sockets
- 5 mm and 8 mm hex keys (included in regular delivery)
- Digging equipment (a small digger) and gravel.

The concrete bases used in installation are not included in the standard shipment of the InfoBoard. Concrete bases suitable for installation are 500 millimeters in height and weigh about 30 kilograms. They can be found in every concrete factory and are usually used in traffic sign installation. An essential part of a concrete base is an installation socket made of metal. For installation you need



maintenance instructions in chapter 5: "Installation and

The InfoBoard map to be attached to the framework is usually shipped separately. The map is easy to attach once the framework is installed in the ground. For map installation you will only need the included 5 mm hex key. Screws are included in the map shipment and the map plate includes holes for attaching it.





# **TeePad**





#### Turf mat: Warranty 3 years

Warranty includes the turf mat material. It does not include improperly installed or improperly maintenanced product. Please see detailed warranty conditions in chapter 1: Warranty Conditions.



## TeePad

Every disc golf hole begins on an initial throwing place - the tee. On new disc golf courses the most popular tee choice is turf. TeePad tees have a significant effect on the general impression and the usability of the course. A turf mat looks tidy and natural. In addition they are durable and player-friendly, when maintained properly. TeePads are available in two sizes: Am and Pro.

#### Am TeePad

- Turf tuft length 20 mm
- Material polyethene
- TeePad size 1500 mm x 2500 mm
- Suitable for both temporary and permanent use
- A wooden frame is needed for installation. The wooden frame is to be ordered separately. Frame size 1400 x 2400 mm
- Installation on gravel or finer crushed stone

#### Pro TeePad

- Turf tuft length 20 mm
- Material polyethene
- TeePad size 2000 mm x 4000 mm
- Suitable for both temporary and permanent use
- A wooden frame is needed for installation. The wooden frame is to be ordered separately. Frame size 1900 x 3900 mm
- Installation on gravel or finer crushed stone





**TeePad** 







Correctly installed TeePads are a long-lasting solution on disc golf courses. Things to be taken into account when installing:

- · Setting up the ground
- Correct alignation of the TeePad
- Use of chemically preserved wooden frame
- · Right filling material and amount
- Appropriate maintenance



Please study installation and maintenance instructions in chapter 5: "Installation and Maintenance".



Equipment and material needed in installation:

• TeePad (turf mat)

• Chemically preserved wooden frame of size 50 x 100 made of staves (2 x 1500 mm and 2 x 2400 mm)

- Stainless screws for frame assembly and attaching turf mat. (8 x 150 mm screws and 40 x 30 mm screws)
- Digging equipment (an excavator recommended)
- Gravel / crushed stone (Ø 4-8 mm)

• Sand (Ø 0-2 mm) for filling the turf mat. Filling amount: 25 kg per square meter. Am TeePad needs about 85 kg of sand filling and Pro TeePad about 185 kg of sand filling. Sand grain preference:  $0,3 - 0,8 \text{ mm } \pm 23 \text{ kg/m2}$ , resp.  $\pm 26 \text{ kg/m2}$ 



# TeeSign





## TeeSign

## TeeSign

TeeSign is designed for disc golf. TeeSign tells the essential hole information and makes playing a more enjoyable experience. The graphics are printed and laminated on a UV-protected sticker that is attached on a sturdy metal plate. Its durable structure and powder-coated body enable the TeeSign to be used in every condition around the year. TeeSign is manufactured in Finland and it has been granted The Key Flag Symbol.

- Powder-coated metal body (Ø60 mm)
- Height 1200 mm (700 mm from ground level)
- Laser finish in both maps and map body
- UV-protected and laminated map with aluminum back plate
- Installed on a separately ordered concrete base
- 10-year body warranty

TeeSign is always designed to match your needs. The map can be colored as wished and even specific logos can be added to it. To help navigating on your course, ask for more signs from your course designer!



#### Body: Warranty 10 years

The body is made of powder-coated metal. Please see detailed warranty conditions in chapter 1: Warranty Conditions.

#### Map: Warranty 3 years

The map is made of laminated and UV protected sticker print that tolerates frost. Please see detailed warranty conditions in chapter 1: Warranty Conditions.

## Accessories

- concrete base
- available also with a rock base





# TeeSign



Our TeeSigns are stylish and durable. The UV-protected maps are printed on a laser-cut aluminum sheet and attaching them is a breeze.

Installation and Assembly

#### For installation you need:

- Concrete base and an installation sleeve
- 5 mm and 8 mm hex keys (included in regular delivery)
- Digging equipment and gravel.

The concrete base used in installation is not included in the standard shipment of the TeeSign. Concrete base suitable for installation is 500 mm in height and weigh about 30 kgs. They can be found in every concrete factory and are usually used in traffic sign installation. An essential part of a concrete base is the installation sleeve made from plastic. For installation you need also digging equipment and gravel.



maintenance instructions in chapter 5: "Installation and Maintenance

The TeeSign map to be attached to the body is usually shipped separately. The map is easy to attach once the TeeSign body is installed in the ground. For map installation you will only need the included 5 mm hex key. Screws are included in the map shipment and the map plate includes holes for attaching it. Get a metal blade (5 mm) for cleaning the map assembly holes.

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## Instructions for Building a DiscGolfPark

This guide contains detailed installation instructions for each DiscGolfPark product: DisCatcher target, InfoBoard, TeeSign, Deluxe TeeSign and TeePad.

Installing DiscGolfPark products is easy and it takes a few hours to install the equipment for each hole. The time required depends on many factors, such as the soil type and tools available. The most time consuming part of the installation is building the tees.

## A Disc Golf Course Is Built in Three Phases

Our DiscGolfPark products are normally delivered in several parts. Course design is a project with many work phases. We want to deliver every phase in an excellent quality, which is why we have chosen the best subcontractors that match our high quality demands for DiscGolfPark products.

DisCatcher targets, InfoBoards, TeeSigns, Deluxe TeeSigns and TeePads are delivered in the same shipment from the manufacturer. The course plan is delivered soon after course design by email. The printed graphics of the InfoBoard and both TeeSigns are usually delivered last.





## 1st Phase: Course Design

The task of a course designer is to plan a) a course that meets customer's needs and b) is as safe and interesting to play as possible in the selected area.

Before planning, the basis for the course design is discussed with the customer. After the design is done, the course designer presents the plan to the customer. The course designer marks the plan on-site and sends an installation map to the customer.

## 2nd Phase: Beginning Installation

Once the course designer has presented his/her plans, the installation map and the course equipment have been delivered, installations can begin.

Even before receiving the course equipment, certain tasks can be completed. The ground work can be begun and the TeePad frames can be built. All DiscGolfPark products are installed according to the installation map and installation instructions.

## 3rd Phase: Delivery of Maps

Based on the course design, the InfoBoard and the TeeSigns will be equipped with illustrations of the course. They present the course information. Rules and guidances are easy to describe on them. They will also include customer-specific details, such as information on course maintenance and possible sponsor logos.

When the information system has been approved by the customer, we proceed to the map delivery. Screws for attaching the maps will be provided in the shipment. After attaching the maps the course is ready for play!

# **DisCatcher**

## **DisCatcher Installation -**Parts and Tools Needed

- Target parts (4): chain rack, basket, pole and sleeve (included in regular delivery)
- Bolts and nuts for attaching target parts (included in regular delivery)
- Concrete base (or mold) and a plastic tightening socket (not included in regular delivery)
- Optionally a rock base or a portable foot
- 8 mm hex key (included in regular delivery)
- Digging tools
- Gravel

## Accessories

- portable foot
- concrete base
  rock base

Detailed installation instructions on the back side.





## Installation Phases

- 1. Dig a hole that is 50 cm deep and 50 cm wide. Put the concrete base in the hole.
- If you use a ready-made concrete base, put the sleeve in it. If you cast the concrete yourself, put the sleeve in concrete so that concrete doesn't get inside the sleeve.
- Put the pole in the sleeve and set it straight. Notice that the closed pole must be placed down. Attach the pole in concrete by pressing down the plastic socket around the pole. Fill the hole with coarse gravel and pack it tight.
- 4. Assemble the basket. Attach the basket part on the pole first with a bolt and nut. Then attach the chain rack with a bolt and nut. Remember to attach the plastic end on the top of the pole. Finally, tighten the bolts with the hex key.
- 5. The installation height of the basket is 80 cm from the ground (measured from the upside of the basket part as depicted on the other side of this page).

## DisCatcher Installation on Rock

- Rock base (to be ordered separately)
- 1. Find a flat and solid place for the rock base so that it can be attached from its every corner.
- 2. Level the rock base using nuts for instance.
- 3. You will need 10 mm bolts that are 80-100 mm in length.
- 4. Tighten the bolts with a wrench.













## Installation Phases

- Install the TeeSign far enough (at least 1,5 m) from the TeePad so that the players won't hurt their hand when throwing. The recommended installation location of the TeeSign is on the front right or left side of the TeePad. It can also be located directly on the right or left side of the TeePad.
- 2. Dig a hole that is 50 cm deep and 50 cm wide. Put the concrete base in the hole.
- 3. If you use a ready-made concrete base, put the TeeSign pole in it. If you cast the concrete yourself, put the pole in the cast.
- 4. Set the TeeSign pole straight. Direct the map part so that it can be clearly seen from the TeePad.
- 5. Attach the pole by pressing down the plastic socket around the pole. Fill the hole with coarse gravel and pack it tight.
- Drill the ready-made map plate holes in the TeeSign clean to ensure tight fit. Attach the map plate on the back plate with the 5 mm hex key. (The maps are usually separately delivered after the course equipment.)

## TeeSign Installation on Rock

- Rock base (to be ordered separately)
- 1. Find a flat and solid place for the rock base so that it can be attached from its every corner.
- 2. Level the rock base using nuts for instance.
- 3. You will need 10 mm bolts that are 80-100 mm in length.
- 4. Tighten the bolts with a wrench.









# **TeePad**

## TeePad Installation -Parts and Tools Needed

- TeePad turf mat (included in regular delivery)
- Frame made of chemically presered wood of size 50x100 mm (not included in regular delivery)
- Stainless screws for making the frame and attaching the turf mat (not included in regular delivery) Recommendation: 8 pcs 150 mm screws and 40 pcs 30 mm screws
- Digging tools (digger recommended)
- Screwdriver
- Gravel / crushed stone (Ø 4-8 mm) for the base
- Sand ( $\emptyset$  0,3-0,8 mm) for filling the turf mat Filling amounts:
- 15-20 kg per square meter

AM TeePad needs about 75 kg of sand and PRO TeePad about 160 kg.

Detailed installation instructions on the back side.







## Installation Phases

- Remove soil in 20-50 cm depth on an area a bit larger than the TeePad so that you can fit the wooden frame on the ground level. Not always you need to dig that deep if you're able to fit the frame on a solid ground otherwise.
- Build a wooden frame with outer dimensions 100 mm shorter than the turf mat dimensions. (PRO TeePad 1900 x 3900 mm, AM TeePad 1400 x 2400 mm)
- Fit the frame steadily on a level plane aligned towards throwing direction. Fill the frame with gravel and pack it tightly. Leave
   2-3 cm more gravel in the center of the frame to take the effect of sinking into account. Use either machinery or body weight for packing.
- 4. Attach the turf mat in the sides of the frame with screws. The mat extends 5 cm over each side of the frame.
- 5. Pack gravel around the TeePad so that the surrounding ground is on the same level as the TeePad.
- 6. Fill the turf mat surface with sand and brush the sand in. The sand makes the TeePad safe for players by decreasing friction and it also makes the turf mat last longer.









# InfoBoard

## InfoBoard Installation -Parts and Tools Needed

- InfoBoard parts (3): metal body (ø 50,8 mm), 2 metal sleeves, map background plate and the map (included in regular delivery)
- Screws, bolts and nuts for body assembly and map attachment (included in regular delivery)
- Two concrete bases (or molds) and plastic tightening sockets (not included in regular delivery)
- Optional rock bases
- Digging tools
- 5 mm hex key (included in regular delivery)
- 8 mm hex key (included in regular delivery)
- Gravel



## Accessories

- Concrete base
- Rock base



Detailed installationinstructions on the back side.



## Installation Phases

- 1. Dig two holes approximately 50 cm in depth and at least 50 cm in width. The holes should be about 112 cm apart.
- 2. Put the concrete bases in the holes. If you use cast concrete by yourself, fit the poles inside the sleeves and put the sleeves in the casts. (And skip step 3.)
- 3. Fit the metal sleeves in the plastic sockets and press them tightly inside the concrete bases.
- 4. Fit the InfoBoard poles in the sleeves and adjust the board straight. Tighten the bolts with the 8 mm hex key. Fill the holes with coarse gravel and pack it tight.
- Attach the map plate on the back plate using the 5 mm hex key. (Maps are usually delivered separately after the course equipment.)

## InfoBoard Installation on Rock

- Rock bases (2 pcs, to be ordered separately)
- 1. Find a flat and solid place for the rock bases so that they can be attached from every corner. Both of the rock bases must be on the same line and level.
- 2. Level the rock base using nuts for instance.
- 3. You will need 10 mm bolts that are 80-100 mm in length.
- 4. Tighten the bolts with a wrench.









## **Disc Golf**

## Disc golf - a Lifelong Hobby

The popularity of disc golf has grown rapidly and there are hundreds of thousands people who play disc golf in Europe. Disc golf is easy to begin and learn, but difficult to master. This is probably the factor that attracts people to disc golf. Disc golf offers great experiences for people of all ages and both sexes. It is great for school students and it's fast to learn. For older people disc golf offers the joy of social exercise.

The idea of disc golf is similar to the idea of golf. Instead of clubs and balls like in regular golf, the playing equipment of disc golf features a wide variety of plastic frisbees that come in many different shapes and weights. Disc golf target corresponds golf's hole. The winner of a round of disc golf is the one who played the course with the least amount of throws.



Disc golf is at its best in a beautiful park in good company.



## **Disc Golf**

Disc Golf Course

New course

Private course

Map:

fitsbeegolfredet.fi

### Case Finland

Did you know that there are more disc golf courses than golf courses in Finland? Dozens of disc golf courses are established in Finland every year. The sport grows rapidly in cities and municipalities, which are willing to offer new forms of sports to their residents. Also private sector companies acquire disc golf courses, which they use to offer better services to their customers. These operators include for instance sports institutions, ski resorts, spas and camping areas.

Some cities have noticed the enthusiasm towards disc golf and have established several courses to answer their residents' needs. For example the city of Imatra (population 28,000) established two courses to serve players of different skill levels. Disc golf is a true whole nation sport.

One significant reason for the rapid growth of disc golf is the fact that it is inexpensive. You can begin playing it with just a couple of discs. Dozens of new disc golf courses are established all around Finland every year. The game can be played on over 400 courses from the southernmost tip Hanko to northernmost Lapland. Most of the courses are free for everyone to play and they are located in public parks and sporting areas.







### Rules of Disc Golf

The goal of disc golf is to play the course with the least amount of throws possible. The hole lengths vary from 50 meters to over 250 meters. Par values familiar from golf vary between par 2 and 5.

Disc golf is an individual sport, but it's played usually in groups of 3-5 players. Initial shot is thrown from a designated area (tee). The next shot is thrown from the location the previous shot came to rest. Each throw including penalty strokes is added up. The total score is the sum of all throws on each hole. The player who has thrown the lowest score is the winner.

### Rules in a Nutshell

The goal of the game is to get the disc from the tee to the target with the least amount of throws possible.

After initial throw, the player who is farthest from the target throws first. Subsequent shots are thrown from the lie where the disc came to rest. The player throws as many time as it is needed to get the disc to rest inside the target.

When the disc is released, the player may follow up. From ten meters or closer to the target the throw is called a putt and cannot be stepped over. 4 Each rest in

Each hole is finished when the disc comes to rest inside the target.



The player who has thrown the lowest score is the winner.

6 Be polite to the other users of the area and leave the course in good condition after playing. What you carry to the nature, bring it back too - please don't litter!



Disc golf is a game of good spirit - the most important thing is to have fun!

For complete disc golf rules of play, please see: www.pdga.com





## **Course Classification**

Disc golf courses are classificated based on their level of challenge and equipments. The level of challenge is indicated with letters AAA-A, BB-B, C and D. For example an AAA class course is a full length tournament level course and D class course is a beginner friendly school student course. In addition, the courses are classified with numbers 1-3, depending on how they are equipped. On a level 1 course there are tee pads and comprehensive signs, which makes the course easy to play. On a level 3 course there are just the targets. DiscGolfPark® courses are mainly level 1 courses.

Requirement/class	AAA	AA	Α	BB	В	С	D
Hole amount	18+	18+	18+	9-17	9-17	7-17	6 or less
Avg. length (m)	140+	100-140	<100	100+	75-100	<75	Not defined
Par	64+	58+	Not defined	At least one par 4	Not defined	Not defined	Not defined

Level 1	Level 2	Level 3	
Official targets* Sign system** Tee pads Maintenance	Official targets Marked tees or sign system	Targets Marked tees	

\* Official targets are approved by PDGA.

\*\* Sign system contains a course information board and signs on each tee.

## **Disc Golf**



Class A courses have at least 18 holes. Hole lengths vary between 50 and 300 meters and their level of challenge varies from competition level to beginner friendly level. Class A courses become more popular as the sport keeps growing and the players become more demanding. Class A courses are best suited in areas that already have a smaller course and the growth of players sets demand for expanding the course. Class A courses can be established in practically any terrain type. Their design and equipment costs are about 10000-15000 euros. The costs depend greatly on the area. Class A course requires 15-25 hectares of land that is versatile in its terrain and vegetation.





Class B courses are hobby-level courses that have at least 9 holes. Hole lengths vary between 50 and 170 meters. Class B courses are usually the most popular ones as they are good for beginners and offer challenges to the more seasoned players as well. Class B courses are suitable for areas that already have a smaller course or no course at all. A class B course can be established practically in every terrain type. A 9-hole course's design and equipment costs are about 6000-8000 euros. Class B course requires 8-15 hectares of land.



Class C courses are beginner friendly courses that have at least 7 holes. Hole lengths vary between 50-90 meters. A class C course is a good choice as the first disc golf course of the area. Students, pensioners, youth and everybody else are possible users of a class C course. Class C course should be located close to residential areas, schools and/or city centre. The total costs of a 9-hole class C course are about 5000-6000 euros. The course requires only 3-8 hectares of land.



Class D courses are beginner friendly locations to get familiar with the game of disc golf. They have 3-6 holes. Class D courses are established primarily on school yards. Hole lengths vary between 30-60 meters. A class D course can be established on a very small area and its costs are only about 2000-3000 euros.







Your DiscGolfPark -contact:

### More information about DiscGolfPark and Disc Golf:

DiscGolfPark by Innova www.discgolfpark.net

Innova Champion - #1 in Disc GOIf www.innovadiscs.com

Professional Disc Golf association www.pdga.com

