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Playground and sport units have to make fun, have to feel good, and can take a lot for a very long time at its best. This sounds simple but requires a high level of empathy and experience. Therefore it is our biggest compliment that our sport units are that popular.

Everything is easy with the right concept: The elements are supplied all done and can be put into operation in no time. From the skate park and miniature golf unit to climbing walls on playgrounds, and sculptural climbing objects for public spaces.



Sport Units

Climbing
Skate
Miniature Golf



Rocks | Oy Mittelberg

► Sport units of pre-cast concrete elements

by Concrete Rudolph



Skate Park | Augsburg



Miniature Golf | Munich

Playground and sport equipment shall be fun and have to be able to take really a lot for a very long time at the best. This is the principle according to which Concrete Rudolph has been designing sport units of pre-cast concrete elements since 20 years. Concrete withstands the daily strain and braves any weather conditions even without regular maintenance. That way climbing objects, skate parks and miniature golf units are created to be a delight for a long time.

Climbing Units

Our boulder objects include everything from supporting wall combinations to animals and sculptures that can be climbed and which unite objects of art and play. To give the impression of natural rocks the surface structure can be built to resemble an alpine rock face.

Skate Parks

Skate parks of pre-cast concrete elements withstand fatigue stress while providing excellent running properties. We plan each park free of charge and tailored to the individual budget, to the urban environment, and to the users' preferences.

Miniature Golf

We produce miniature golf courses from a single mould. That way seamless courses are created to enable a precise game for amateurs and professionals alike. The solid courses are weatherproof and also withstand rough handling, resulting in a minimum need for maintenance.

Benefits

- **Precise preproduction in the factory**
Robotised mould and ideal compression of the concrete
- **Production regardless of weather conditions**
Concrete always hardens at an ideal temperature and humidity
- **Smooth finished surfaces with special coating**
Ideal running properties for skating and for miniature golf
- **Fast construction course without large site**
Elements are delivered in a ready state – partly with foundation
- **Low maintenance expenditure – low follow-up costs**
Concrete requires less maintenance than wood and other materials
- **Warranty up to 20 years**
On material and workmanship
- **Separate service contract**
Annual inspection and maintenance of the units



7



45



91

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*»If you want to get to know yourself,
climb on a mountain.«*

Kurt Haberstich

Climbing Units

Trend sport Bouldering

Children intuitively know why rocks and trees stand in the landscape: to be climbed up, of course. The fun of climbing is something we are born with, so to say, and also ever more adults discover bouldering again. Climbing at jumping height has become an absolute trend sport in the meantime and should even become an Olympic discipline by 2020. The young and the elderly alike enthusiastically put their strength, perseverance, and agility to test – on both natural and artificial rocks. In doing so, demands on climbing objects are as different as the users, and in public space design visions of the landscape architects have to be added. It is not that easy to bring everything in line. Concrete Rudolph meets the challenge by providing a multifaceted selection of pre-cast concrete Boulder elements.

CLIMBING UNITS



Rocks | Kottingbrunn

Rocks

The natural ones

Boulder rocks which surface resemble a natural rock face. Experienced climbers will find hold on the rock's surface and can challenge their own track off the holds.

from page 11



Special Design - Holes | Munich

Walls Solo

The versatile ones

Self-contained wall elements that can either stand alone or be combined. Possible double function as visual protection, supporting wall, connector element, or as a partition for structuring.

from page 15



Walls Module Elements | Öthig

Walls Modules

The combinable ones

Four modular systems of freely combinable wall elements offer freedom of design as well as variable levels of difficulty. The walls of any length may also be used for slope stabilisation.

from page 21



Climbing Ear | Dorsten

Solitaire

The eye catcher

Climbable sculptures – playground equipment and eye catcher alike for public spaces.

from page 20



Climbing Animal | Dormagen

Climbing animals

The fanciful ones

Very small summiteers just love the combination of climbing object and imaginative role play. For them we have a whole zoo of climbing animals: lion, camel, giraffe et al invite to be mounted, stroke, fed, and ridden.

from page 35



► Rocks

The natural ones

Rocks are stand-alone elements which resemble natural rocks all over. They can be climbed on from all sides, can be provided with cavities and linked with climbing ropes to create exciting Boulder landscapes.

The impression of natural rocks is created by the interplay of concrete which is similar to rock due to its organic shape and surface structure. It is amazing how much the illusion of a natural rock contributes to the experience – not only from an aesthetic viewpoint, because experienced climbers will find hold at the rock's surface and may challenge their own track off the holds.

▶ Rock 1



Item no.: STON1
Length: 220 cm
Useful height: 300 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Special

▶ Rock 4



Item no.: STON4
Length: 260 cm
Useful height: 253 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Special

▶ Rock 2



Item no.: STON2
Length: 220 cm
Useful height: 257 cm
Delivery: With pick'n' mix holds

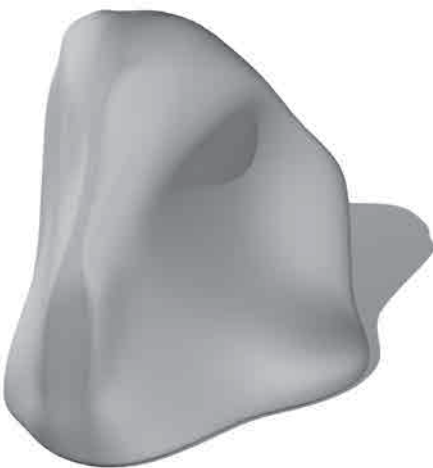
Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Special

▶ Rock 5



Item no.: STON5
Length: 140 cm
Useful height: 160 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Special

▶ Rock 3



Item no.: STON3
Length: 700 cm
Useful height: 300 cm
Delivery: With pick'n' mix holds

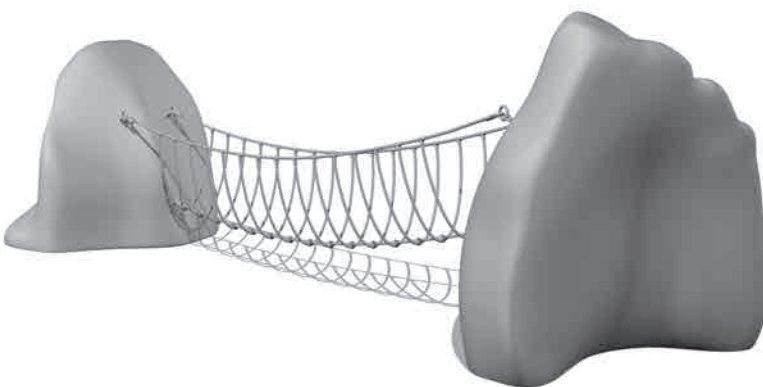
Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Special

▶ Rock 6 Combination



Item no.: STON7
Length: 830 cm
Useful height: 253/160 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Special



Spiral-shaped | Blaustein

► Walls Solo

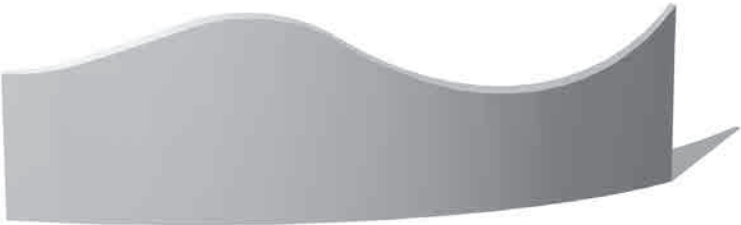
The versatile ones

The Solo Walls belong to the most versatile elements. They can stand on their own, be expanded with other walls, and provide simple combination options together with other playground components – as a supporting element for monkey bars, for example.

If need be they can also be used as a partition for organising and as a visual protection.

Solo Walls are available in different shapes and sizes, whether straight, curved, inclined, with or without opening ...

▶ Wave-shaped wall A



Item no.: WWA01
Length: 1190 cm
Useful height: 300 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, unreinforced installation foundations, falling protection

Surface:



Start Allround Plus Special





▶ Wave-shaped wall D



Item no.: WWA04
Length: 1190 cm
Useful height: 300 cm
Delivery: With pick'n' mix holds

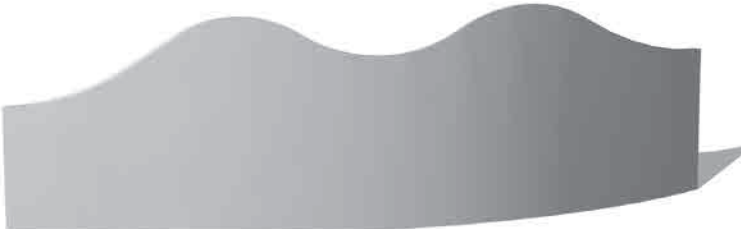
Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, unreinforced installation foundations, falling protection

Surface:



Start Allround Plus Special

▶ Wave-shaped wall B



Item no.: WWA02
Length: 1190 cm
Useful height: 300 cm
Delivery: With pick'n' mix holds

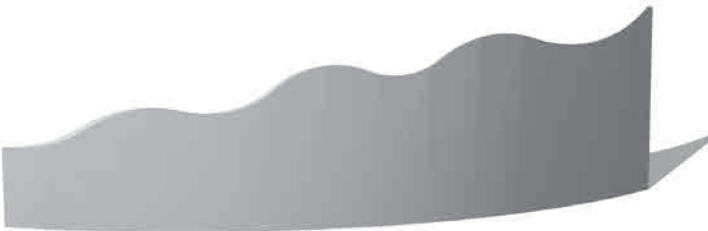
Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, unreinforced installation foundations, falling protection

Surface:



Start Allround Plus Special





▶ Wave-shaped wall E



Item no.: WWA05
Length: 1190 cm
Useful height: 300 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, unreinforced installation foundations, falling protection

Surface:



Start Allround Plus Special

▶ Wave-shaped wall C



Item no.: WWA03
Length: 1190 cm
Useful height: 300 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, unreinforced installation foundations, falling protection

Surface:



Start Allround Plus Special





▶ Wave-shaped wall F



Item no.: WWA06
Length: 1190 cm
Useful height: 300 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, unreinforced installation foundations, falling protection

Surface:



Start Allround Plus Special



Spiral-shaped wall | Bad Heiligenstadt

► Spiral-shaped wall 1

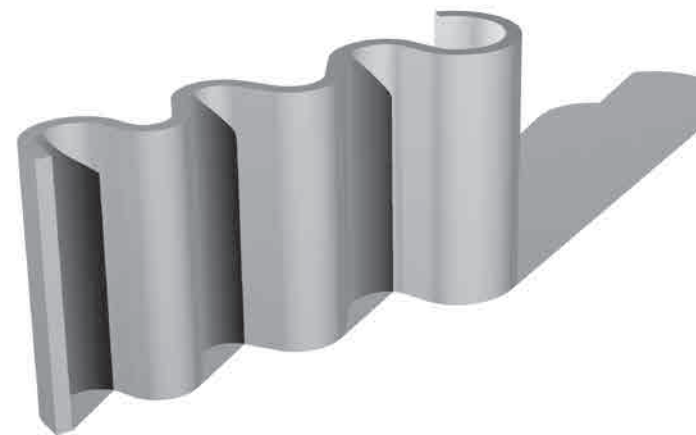
Item no.: Spiral-shaped wall BSW01
Length: 695 cm
Useful height: 300 cm
Delivery: With pick'n'mix holds

Services to be provided by the customer:
 Gravel bed, blinding layer, foundation
 according to manufacturer's specifications,
 falling protection

Surface:



Start



► Spiral-shaped wall 2

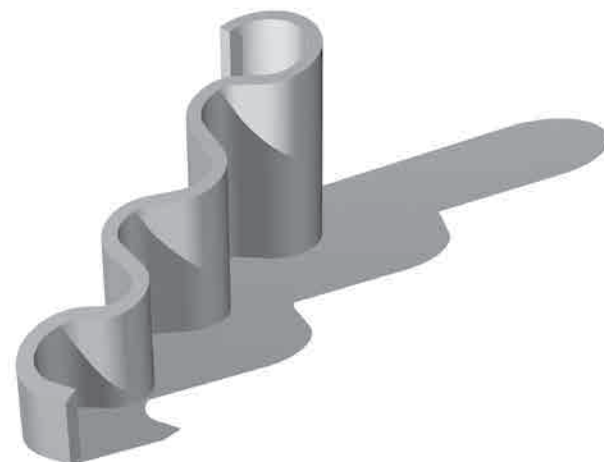
Item no.: Spiral-shaped wall BSW02
Length: 695 cm
Useful height: 300 cm
Delivery: With pick'n'mix holds

Services to be provided by the customer:
 Gravel bed, blinding layer, foundation
 according to manufacturer's specifications,
 falling protection

Surface:



Start



Climbing wall Holes | Munich

► Climbing wall Holes 1

Item no.: Holes KWH01
Length: 600 cm
Useful height: 160 cm
Delivery: With pick'n'mix holds,
 incl. foundation

Services to be provided by the customer:
 Gravel bed, falling protection

Surface:



Start



► Climbing wall Holes 2

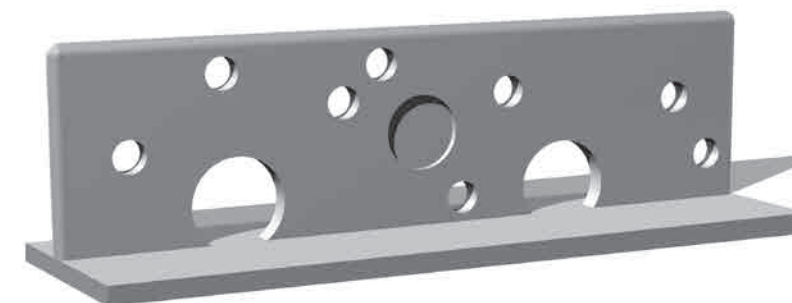
Item no.: Holes KWH02
Length: 600 cm
Useful height: 160 cm
Delivery: With pick'n'mix holds,
 incl. foundation

Services to be provided by the customer:
 Gravel bed, falling protection

Surface:



Start





Walls Module Trapezium | Pattonville

► Walls Modules

The combinable ones

Four modular systems can be selected and each of them has its very own individual strength: one provides up to six levels of difficulty due to its strong overhang and is therefore suitable for a very wide target group – from beginners to the climbing professional.

Others form curves and ring-shaped elements, or lead around the corner – to flexibly deal with local conditions, for example, or to create more variety.

Like the Solo Walls these wall systems may also be used for structuration or as a visual protection. Also a sportive slope stabilisation can be created with this system.



Walls Module Elements | Grafenwöhr

► Walls Module "Elements"

Length: Depending on the elements

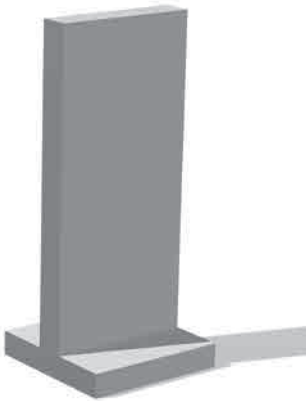
Useful height: 300 cm without foundation
225 cm with foundation

Delivery: With pick'n' mix holds,
boulder element possible with
protection for the standing area

Services to be provided by the customer:

Without foundation: Gravel bed, blinding layer, foundation
according to manufacturer's specifications,
unreinforced installation foundations,
falling protection

With foundation: Gravel bed, 5 cm sand bed, falling protection

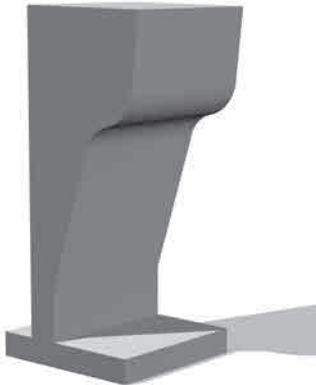


► Element A and A/F

Foundation:		
Item no.:	without BAA01	with BAA02
Length:	125 cm	125 cm

Surface:

Start	Allround	Plus	Special



► Element B and B/F

Foundation:		
Item no.:	without BAB01	with BAB02
Length:	125 cm	125 cm

Surface:

Start	Allround	Plus	Special

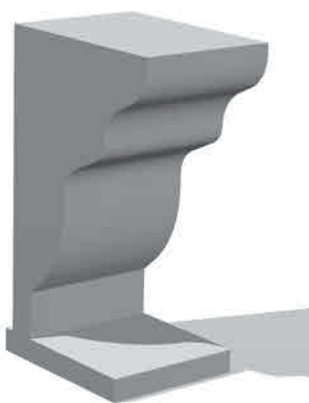


► Element C and C/F

Foundation:		
Item no.:	without BAC01	with BAC02
Length:	125 cm	125 cm

Surface:

Start	Allround	Plus	Special

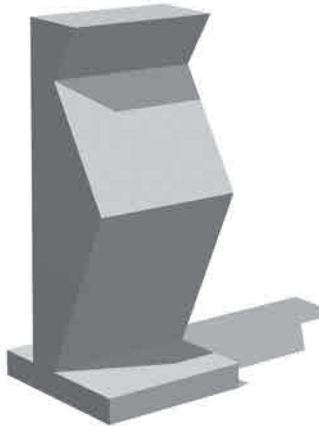


► Element D and D/F

Foundation:		
Item no.:	without BAD01	with BAD02
Length:	125 cm	125 cm

Surface:

Start	Allround	Plus	Special

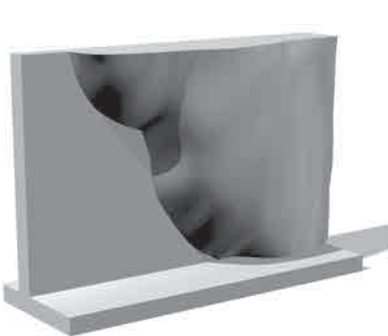
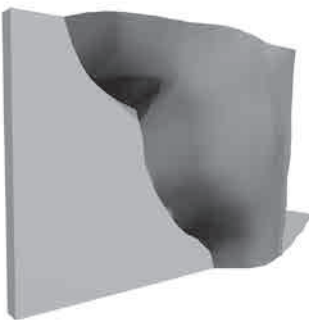


► Element E and E/F

Foundation:		
Item no.:	without BAE01	with BAE02
Length:	125 cm	125 cm

Surface:

Start	Allround	Plus	Special



► Element F and F/F

Foundation:		
Item no.:	without BAF01	with BAF02
Length:	400 cm	400 cm

Surface:

Allround	Special



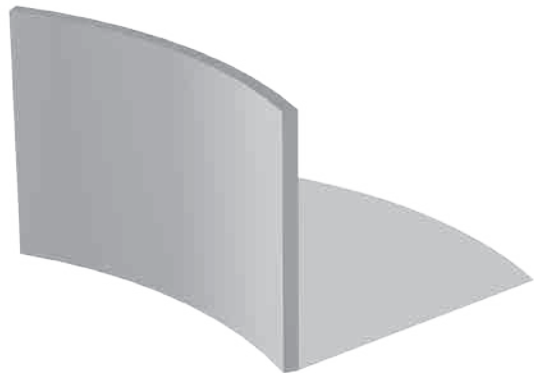
Walls Module CC | Sankt Wendel

► Walls Module "Concave-Convex"

Useful height: 300 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, foundation according to manufacturer's specification, falling protection

Combination options



► Concave

Item no.: SGW01
Length: 500 cm

Surface:



Start



Allround



Plus



Special

► Convex

Item no.: SGW02
Length: 500 cm

Surface:



Start



Allround



Plus



Special



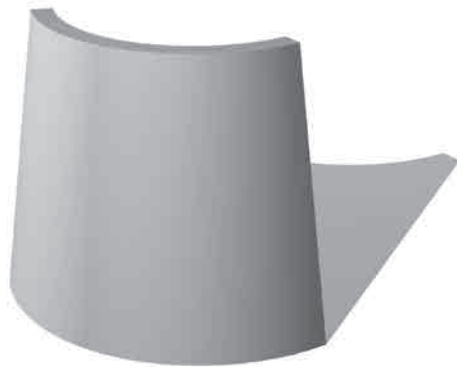
Walls Module Circle | Karlsruhe

► Walls Module "Circle"

Useful height: 300 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, foundation according to manufacturer's specification, falling protection

Combination options



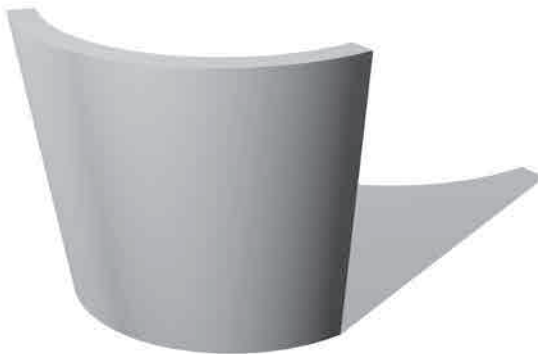
► Circle Module Up

Item no.: SGWK1
Length: 373 cm

Surface:



Start



► Circle Module Down

Item no.: SGWK2
Length: 373 cm

Surface:



Start



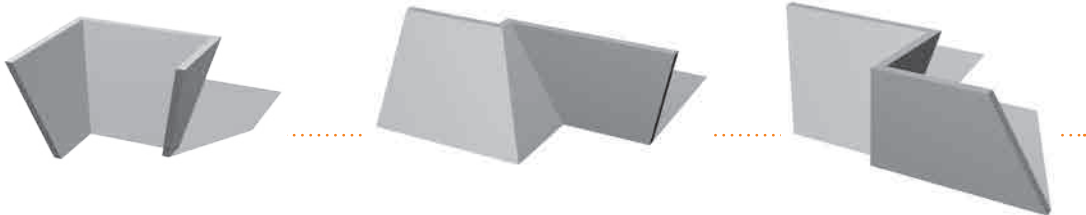
Walls Module Trapezium | Vienna

► Walls Module "Trapezium"

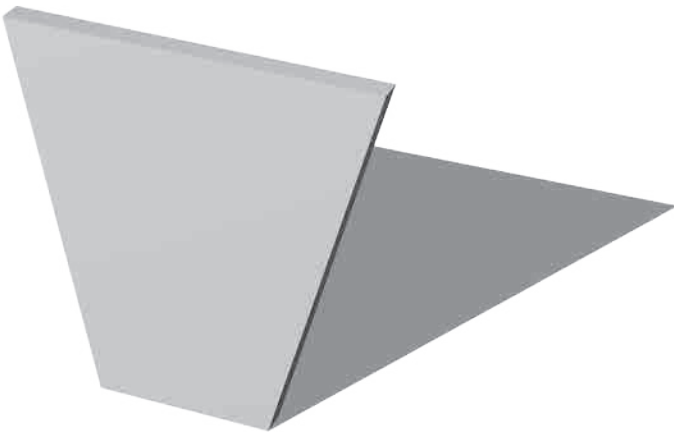
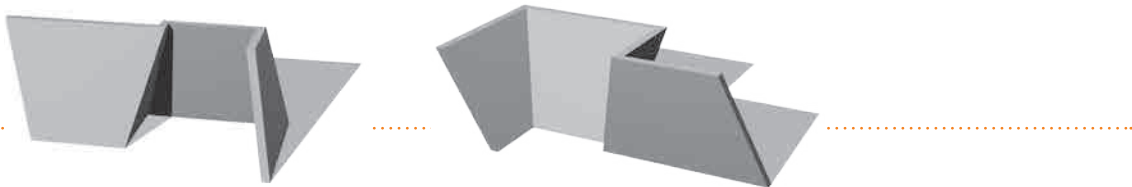
Useful height: 300 cm
Delivery: With pick'n' mix holds

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, unreinforced installation foundations, falling protection

Combination options
3 elements



Combination options
4 elements

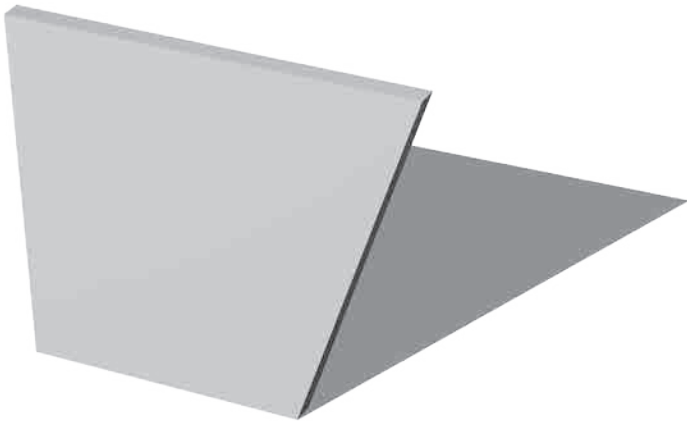


► Trapezium Up & Down A

Item no.: BWT01
Length: 420 cm at the top
205 cm at the bottom

Surface:

Start

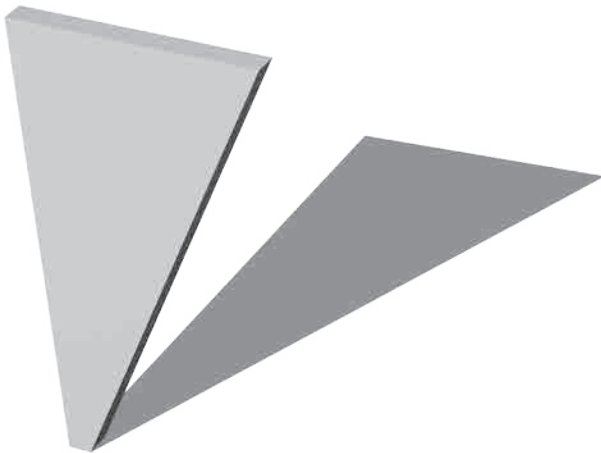


► Trapezium Up & Down B

Item no.: BWT02
Length: 449 cm at the top
285 cm at the bottom

Surface:

Start

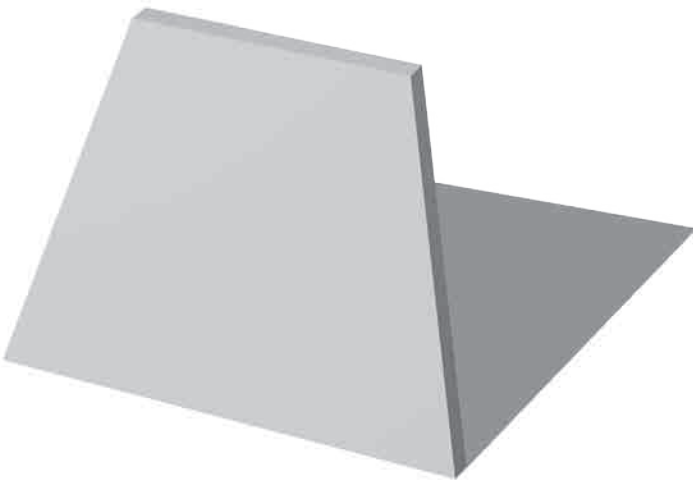


► Trapezium Up & Down C

Item no.: BWT03
Length: 420 cm at the top
45 cm at the bottom

Surface:

Start



► Trapezium Up & Down D

Item no.: BWT04
Length: 292 cm at the top
494 cm at the bottom

Surface:

Start



Boulder mushroom | Sachsenheim

► Solitaire

The eye catcher

Solitaire objects are sculptures that can be climbed on – they are playground element and eye catcher for public spaces at the same time. You may erect a climbing egg below, for example, providing differently steep tracks and overhangs due to its incline.

While bouldering is still strongly emphasized for the climbing egg, the climbing ear focuses on the sculptural aspect. It creates a climbing opportunity on public spaces which does not remind you of a playground.

It rather is a functional work of art.



Climbing ear | Weiler



Climbing egg | Neuwied



Boulder column | Munich

► Boulder column, Crystal 1

Item no.: BSK06
Length: 150 cm
Useful height: 300 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Start



► Boulder column, Crystal 2

Item no.: BSK05
Length: 150 cm
Useful height: 220 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Start



► Boulder column, Crystal 3

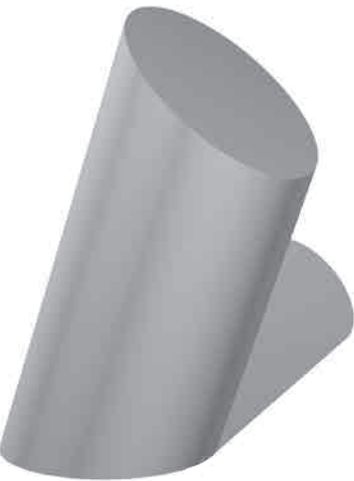
Item no.: BSK03
Length: 150 cm
Useful height: 300 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Start



► Climbing ear

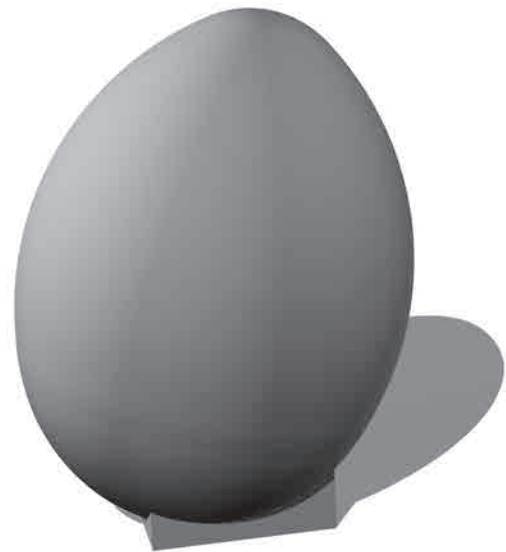
Item no.: SG001
Length: 220 cm
Useful height: 300 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Start



► Climbing egg

Item no.: KLE01
Length: 306 cm
Useful height: 300 cm
Element height: 393 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:



Start



► Erratic Boulder block 1

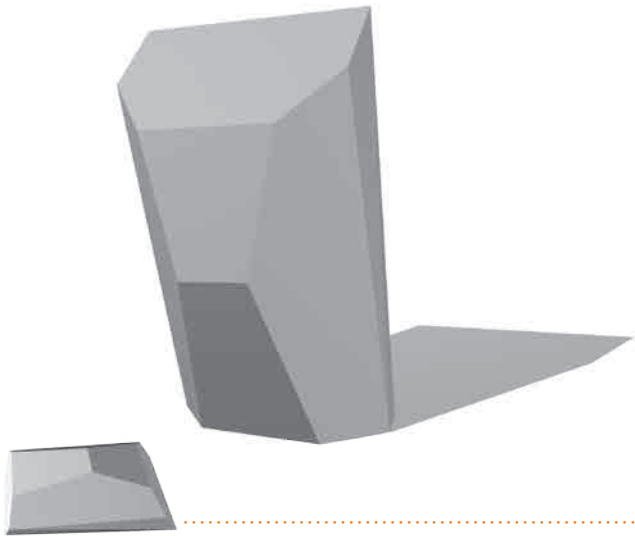
Item no.: BLF01
Length: 180 cm
Useful height: 300 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:

Start

Horizontal view



► Erratic Boulder block 2

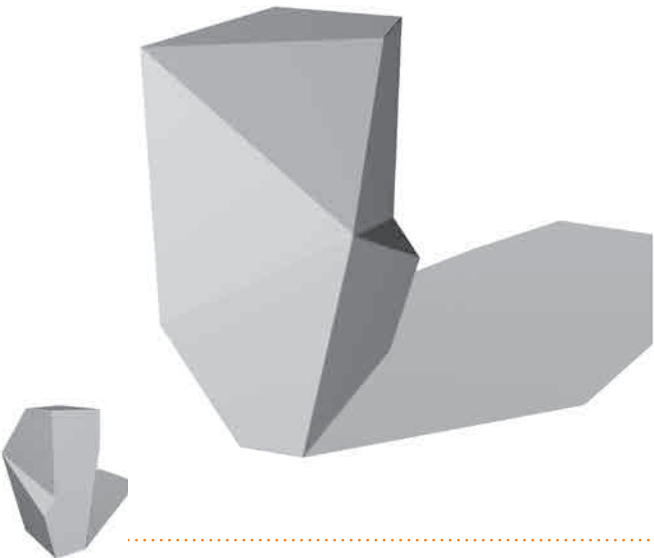
Item no.: BLF02
Length: 180 cm
Useful height: 300 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:

Start

Rear side



► Extreme Boulder tower

Item no.: BTE02
Length: 423 cm
Useful height: 300 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specification, falling protection

Surface:

Start

For advanced climbers



► Prism GAT

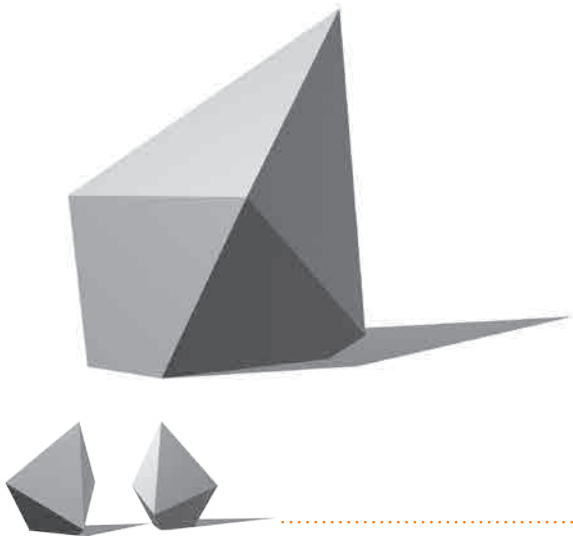
Item no.: PGAT2
Length: 150 cm
Useful height: 208 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:

Start


Combination options



► Climbing mushroom

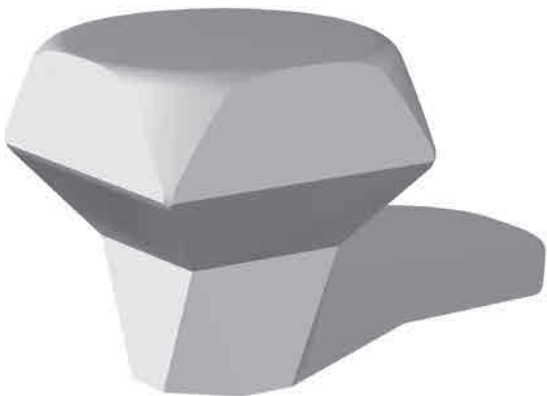
Item no.: BAM03
Length: 150 cm
Useful height: 300 cm

Services to be provided by the customer:
Gravel bed, blinding layer, foundation according to manufacturer's specifications, falling protection

Surface:

Start

Allround

Plus





Climbing Animal Lion | Dormagen

► Climbing animals

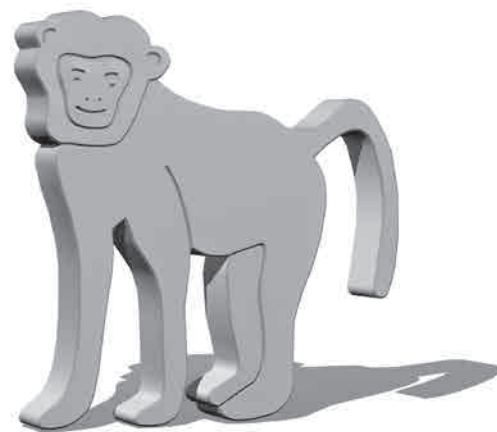
The fanciful ones

Very small summiteers just love the combination of climbing object and imaginative role play. For them we have a whole zoo of climbing animals: lion, camel, giraffe et al invite to be mounted, stroke, fed, and ridden.

Put your very own climbing safari together. Whether strictly separated by habitat or just as the fancy takes you. Because our polar bear may just stand beneath the giraffe – either on their own, or in a herd.



► Climbing animal Monkey



Item no.: AFF01
Length: 125 cm
Useful height: 120 cm
Delivery: Incl. foundation to be put onto a gravel bed

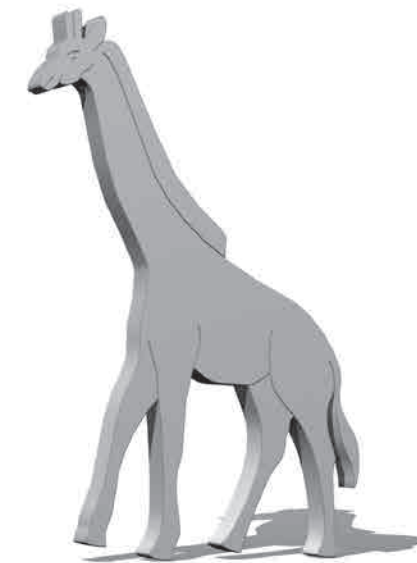
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

► Climbing animal Giraffe



Item no.: GIR01
Length: 240 cm
Useful height: 300 cm
Delivery: Incl. foundation to be put onto a gravel bed

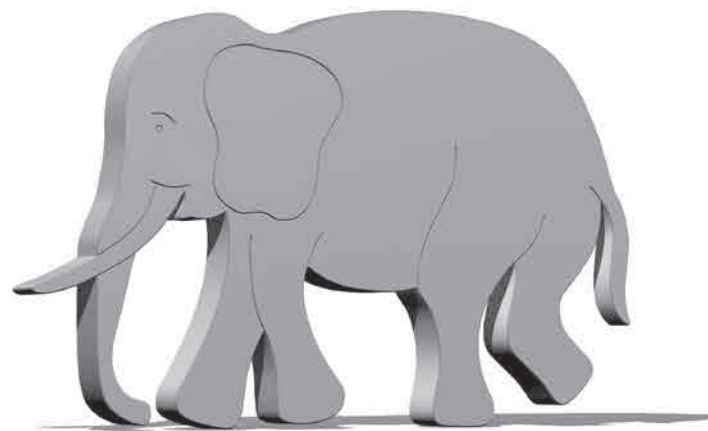
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

► Climbing animal Elephant



Item no.: ELE01
Length: 340 cm
Useful height: 220 cm
Delivery: Incl. foundation to be put onto a gravel bed

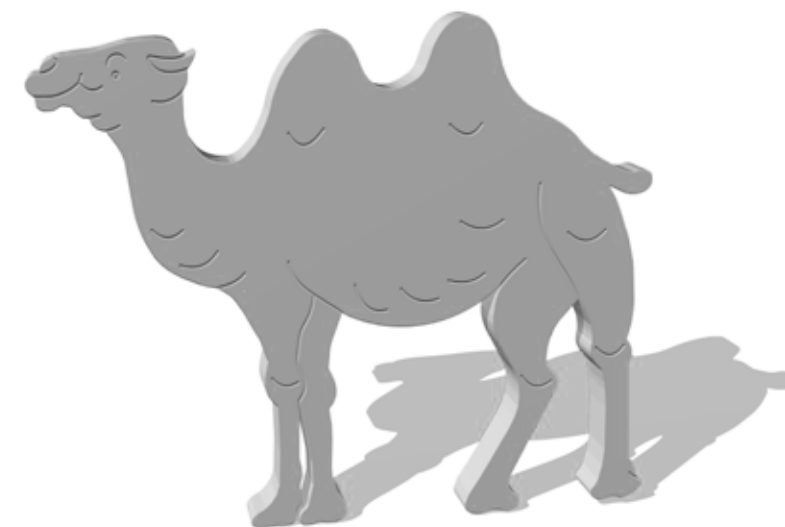
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

► Climbing animal Camel



Item no.: KAM01
Length: 244 cm
Useful height: 202 cm
Delivery: Incl. foundation to be put onto a gravel bed

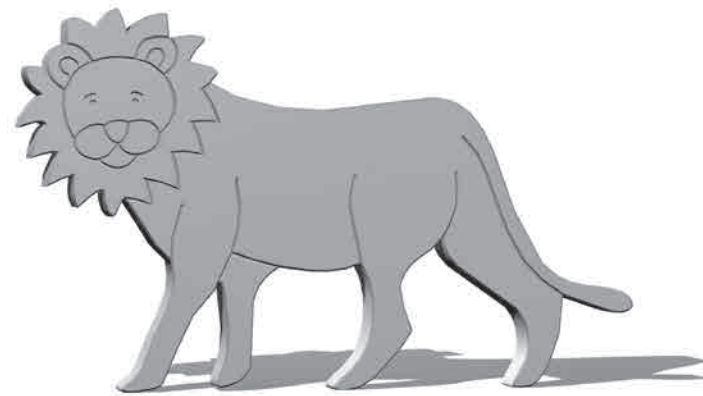
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

▶ Climbing animal Lion



Item no.: LOE01
Length: 230 cm
Useful height: 140 cm
Delivery: Incl. foundation to be put onto a gravel bed

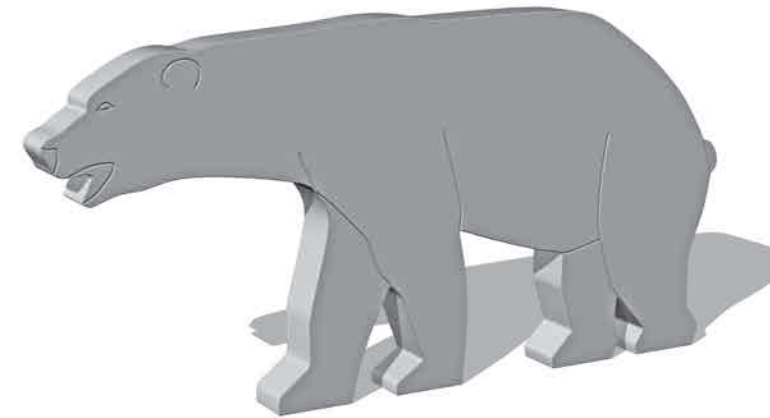
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

▶ Climbing animal Bear



Item no.: BAR01
Length: 311 cm
Useful height: 160 cm
Delivery: Incl. foundation to be put onto a gravel bed

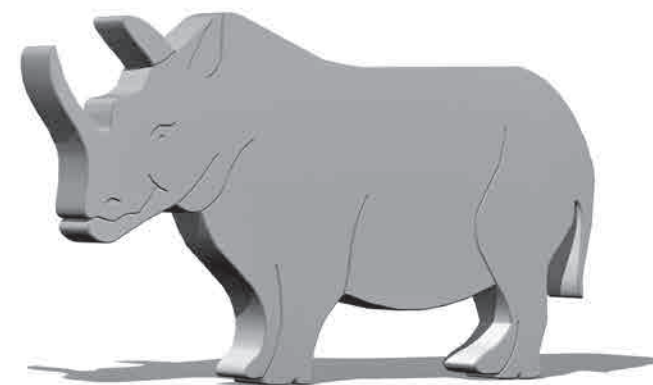
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

▶ Climbing animal Rhino



Item no.: NAS01
Length: 260 cm
Useful height: 160 cm
Delivery: Incl. foundation to be put onto a gravel bed

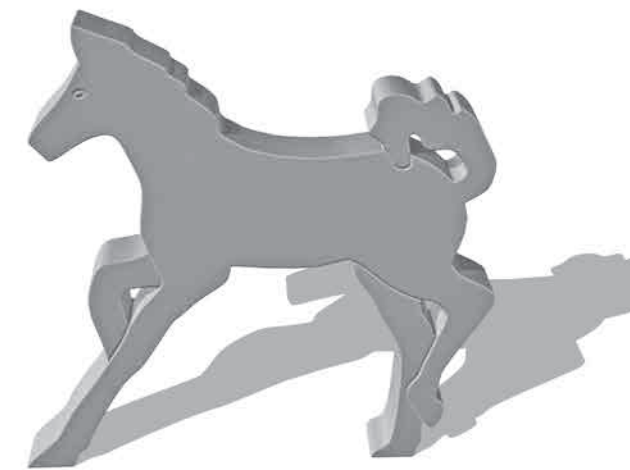
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

▶ Climbing animal Foal



Item no.: FOH01
Length: 145 cm
Useful height: 138 cm
Delivery: Incl. foundation to be put onto a gravel bed

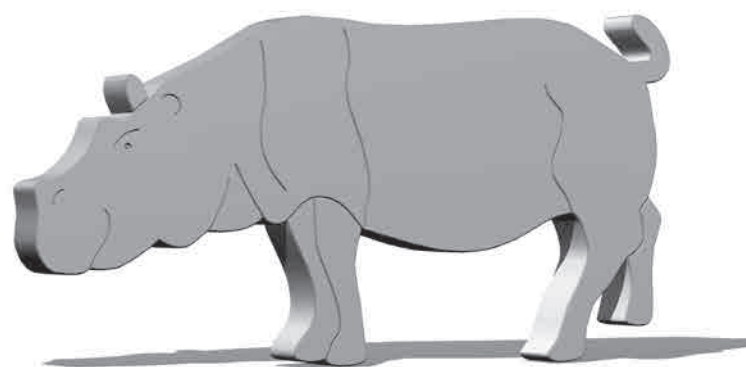
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

▶ Climbing animal Hippo



Item no.: NIL01
Length: 290 cm
Useful height: 155 cm
Delivery: Incl. foundation to be put onto a gravel bed

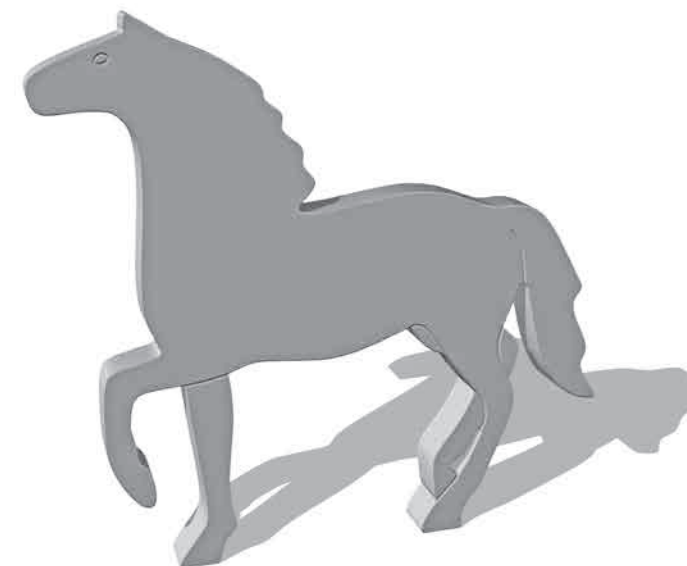
Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start

▶ Climbing animal Horse



Item no.: PFE01
Length: 193 cm
Useful height: 200 cm
Delivery: Incl. foundation to be put onto a gravel bed

Services to be provided by the customer:
 Gravel bed, 5 cm sand bed, falling protection

Surface:



Start:



► General product information

Boulder Units

Properties and Benefits

The objects are precisely prefabricated in the factory under optimized conditions and supported by moulding robots. There they can be produced irrespective of the weather, and the concrete can harden under ideal temperature and humidity conditions. Each step in the factory shortens the construction time on site, and this is why the objects are supplied in an almost ready state – incl. integrated foundations, holds and surface finish. The customer has to provide only minimum services, and the unit can be operated immediately after the quick installation works.

When in use the benefit of the material will become perceptible: contrary to other materials concrete does not have to be regularly re-treated, thus reducing both the maintenance expenditure and the follow-up costs. Concrete is robust, vandalism-proof and has a positive effect on safety issues: it is fire-proof and no fragments can come off.

Colours and Holds

With regard to the colour scheme you have absolutely free choice: the Crefix coating for the concrete surfaces is available in all major RAL colours. In addition there is a wide selection of colours for the holds. That way you can either adapt the climbing unit to an already existing colour concept, or place new accents with the colours of your choice.

About five holds per square metre, that are secured in a number of ways, are mounted on the objects.



► RANGE OF POSSIBLE HOLD SHAPES

Surfaces and Coating

Depending on the composition of its surface a Boulder object conveys a very specific climbing feel. Therefore our elements are available with up to four different surfaces:

- "Start"** does without a surface structure, but is skid-proof nevertheless.
- "Allround"** is slightly structured.
- "Plus"** provides additional hold by means of small recesses and projections.
- "Special"** is the impression of a rock and provides sufficient hold for experienced climbers even off the holds.

All four versions get a final surface finish: our CREFIX coating is weather-proof, protects the concrete surface and takes care of an optimal hold due to the added silica sand.



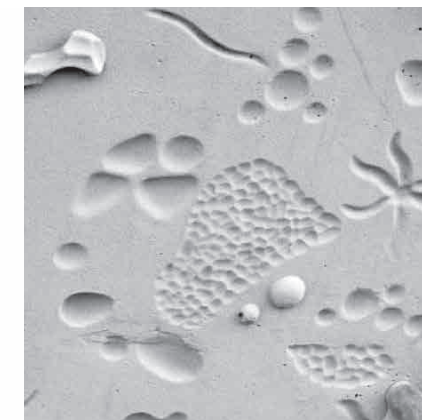
"Start"

WITHOUT STRUCTURE



"Allround"

SLIGHTLY STRUCTURED



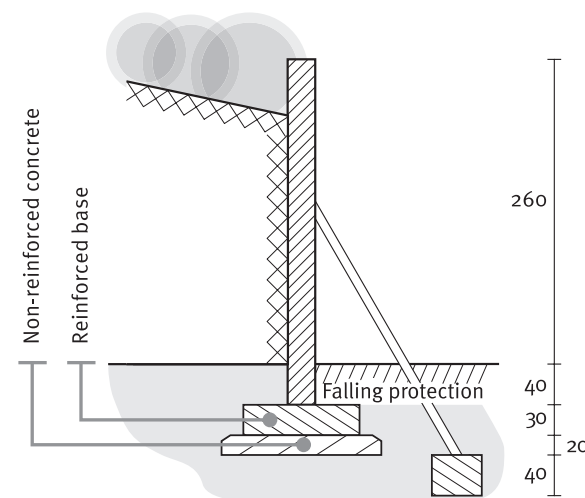
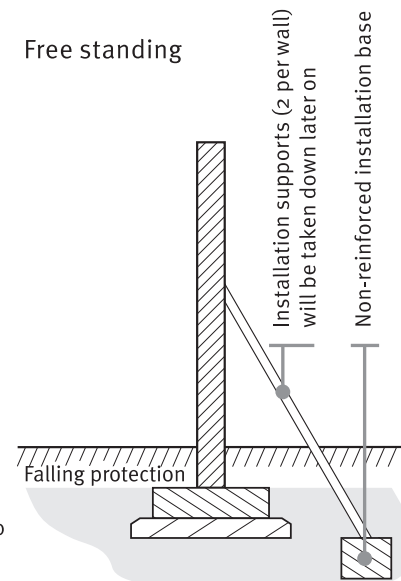
"Plus"

HIGHLY STRUCTURED



"Special"

IMPRESSION OF AN ALPINE ROCK FACE

Boulder wall as fill-up wall**Free standing**

► **TO ERECT THE BOULDER WALLS INSTALLATION ASSEMBLY SUPPORTS ARE REQUIRED THAT ARE REMOVED LATER ON. UNREINFORCED FOUNDATIONS HAVE TO BE PREPARED FOR THE SUPPORTS.**

Battered Wall or Free-standing

Wall modules may stand alone or can be used as a battered wall.. That way you can create both a safe slope stabilisation and an appealing Boulder landscape for the community. We have filmed the erection of a climbing wall for you and uploaded it to the internet: ► www.concrete-rudolph.de/sportanlagen/kletteranlagen/service/

Production, Delivery and Installation

Many of the objects are already produced in one piece with a foundation. In such a case only the gravel bed with a sand bed of 5 cm shall be prepared prior to the delivery onto which the prefabricated Boulder object is put and only has to be completed with a falling protection by the customer. That way climbing units are created without any large-size site and can easily be relocated in case of a later redesign.

Objects with a foundation provided by the customer are only a little more complex: the foundation is to be prepared according to the manufacturer's specifications on a gravel bed with a blinding layer. The prefabricated Boulder object is erected onto this foundation and completed with a falling protection by the customer. And in no time will the unit be ready for use.

Please see the technical data about what kind of foundation is required. Furthermore you will find detailed planning aids and CAD plans to download for each object at:

► www.concrete-rudolph.de.

Warranty and Safety

All Boulder objects are built according to the guidelines of the playground standard DIN/EN 1176 and also meet high safety requirements due to their generous falling protection as well as the high-quality prefabrication – projecting screws or split-off are excluded. We grant a warranty of 10 years for all defects in material and workmanship. Subsequently we would offer you to redo the sport unit at a defined price and then expand the warranty for another 10 years.

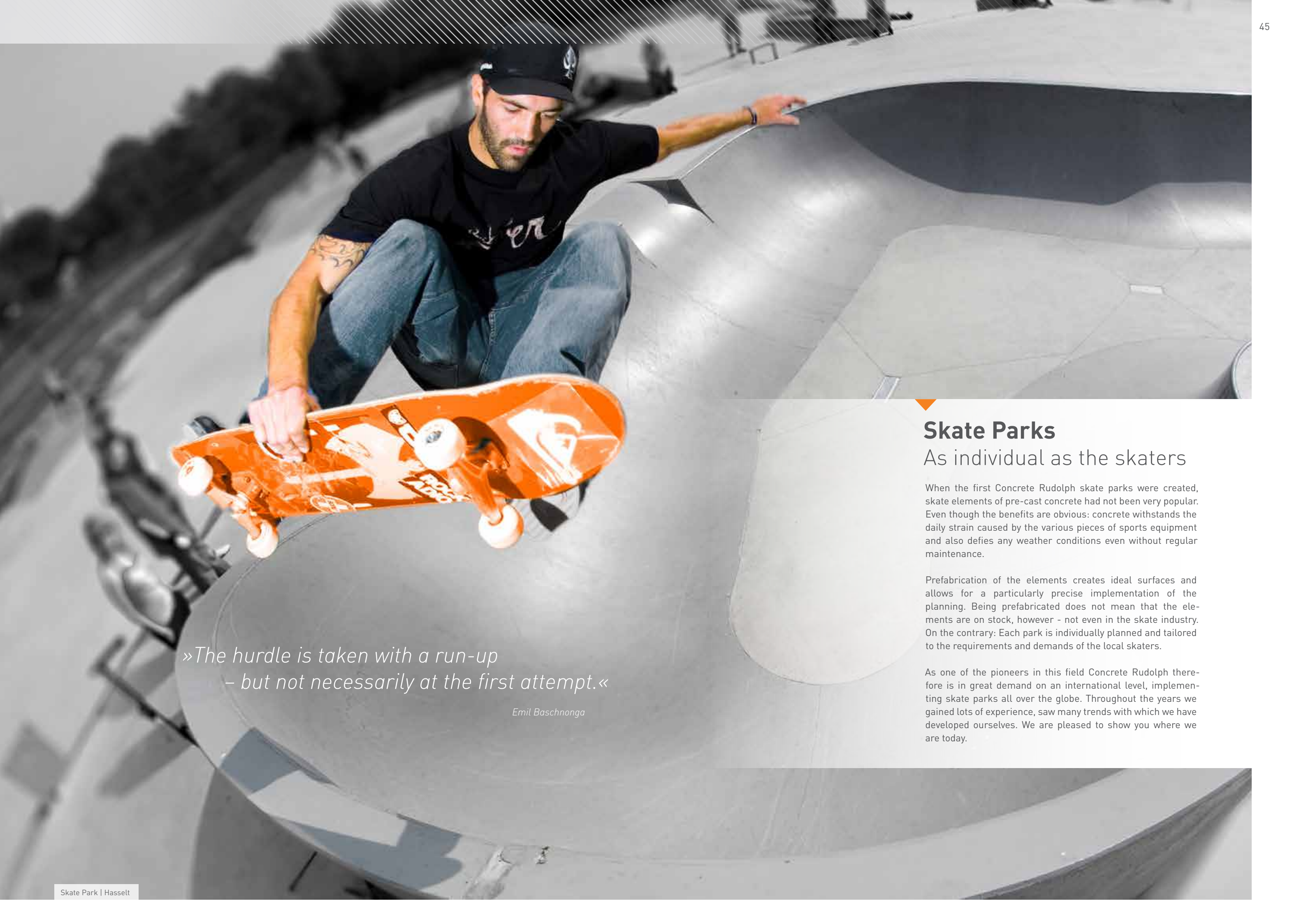
Maintenance and Servicing

With a separate service contract you can protect yourself against user damage: we will inspect the complete unit once a year and remove any defects that may have an effect on the safety or function. This inspection is documented with photos and an inspection report.

Individual Special Designs

Upon consultation we also implement individual special designs for you and check them for their safety: linking of several objects with ropes, bridges, or nets, for example – the use of a supporting wall for scaffolds and other playground elements – or just your very own creations.



A high-angle, black and white photograph of a skateboarder with a beard and a black cap, wearing a black t-shirt and blue jeans. He is crouched on a large, curved concrete structure, possibly a bowl or a ramp, with his hands on the surface. He is holding a skateboard with a bright orange deck and white wheels. The background shows a blurred view of a park with trees and other structures.

*»The hurdle is taken with a run-up
– but not necessarily at the first attempt.«*

Emil Baschnonga

Skate Parks

As individual as the skaters

When the first Concrete Rudolph skate parks were created, skate elements of pre-cast concrete had not been very popular. Even though the benefits are obvious: concrete withstands the daily strain caused by the various pieces of sports equipment and also defies any weather conditions even without regular maintenance.

Prefabrication of the elements creates ideal surfaces and allows for a particularly precise implementation of the planning. Being prefabricated does not mean that the elements are on stock, however - not even in the skate industry. On the contrary: Each park is individually planned and tailored to the requirements and demands of the local skaters.

As one of the pioneers in this field Concrete Rudolph therefore is in great demand on an international level, implementing skate parks all over the globe. Throughout the years we gained lots of experience, saw many trends with which we have developed ourselves. We are pleased to show you where we are today.



Skate Park | Hemer

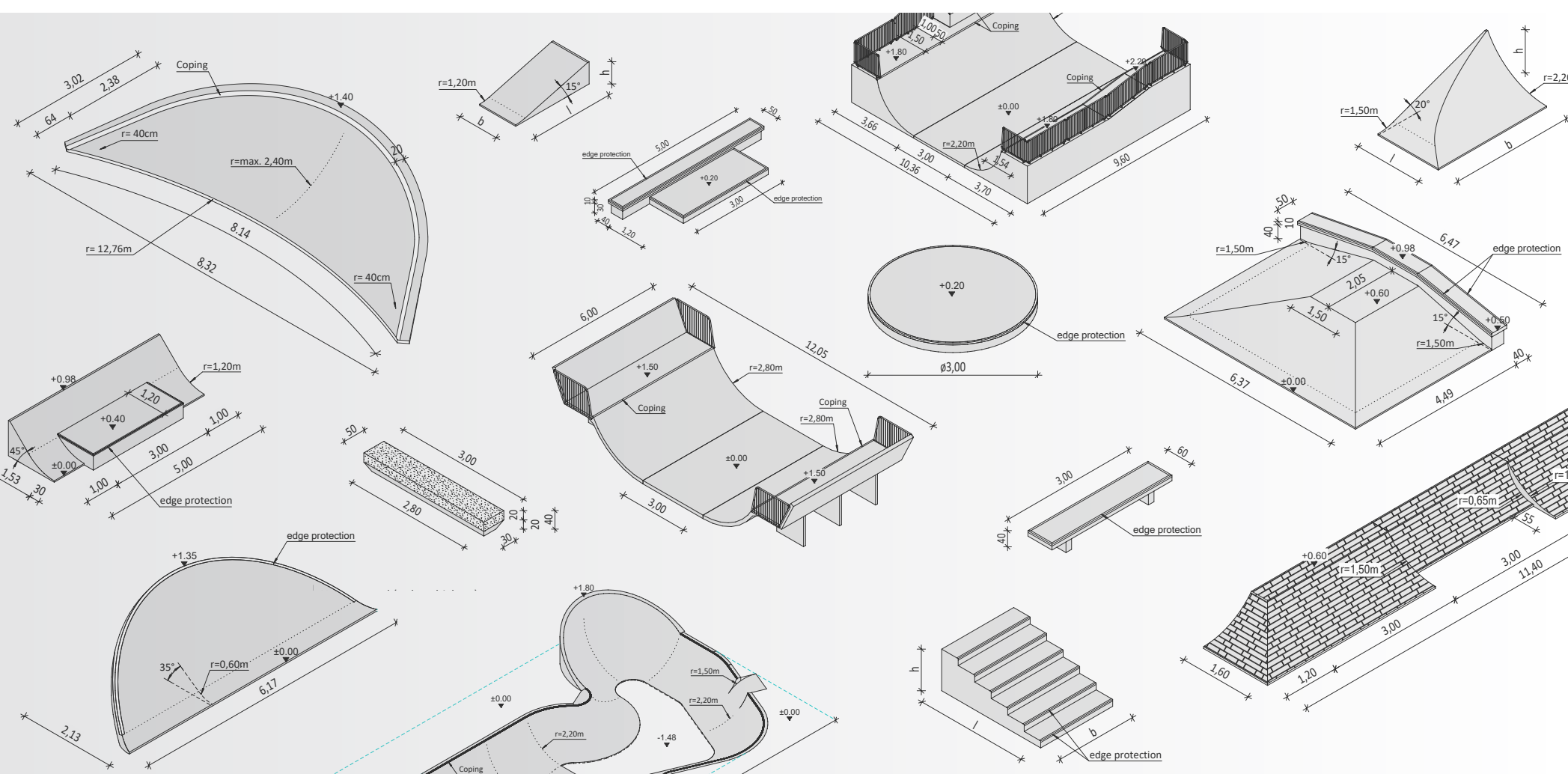
Skate Park Concept

Free planning for you

We individually design each skate park according to your specifications. In case you do not yet have any clear ideas of how your new skate park could look like, we recommend having a look on our concepts. By means of these examples you can see for yourself what could be implemented on a certain area or with a certain budget.

After this first orientation you can tell us what you particularly liked, or what you would like to have changed or added. We then develop a suitable solution for you for free. We moderate planning workshops and present you with drafts that are tailored to meet your needs and budget, and would also fit into the urban environment.

from page 49



Selection of modules

Obstacles from the classic version to the custom-made product

From a functional viewpoint each skate park consists of the same ingredients: Banks, Transitions, Curbs, Rails, ... maybe even a Miniramp or a Pool. The arrangement, combination and aesthetics of the elements are the spices that are then added.

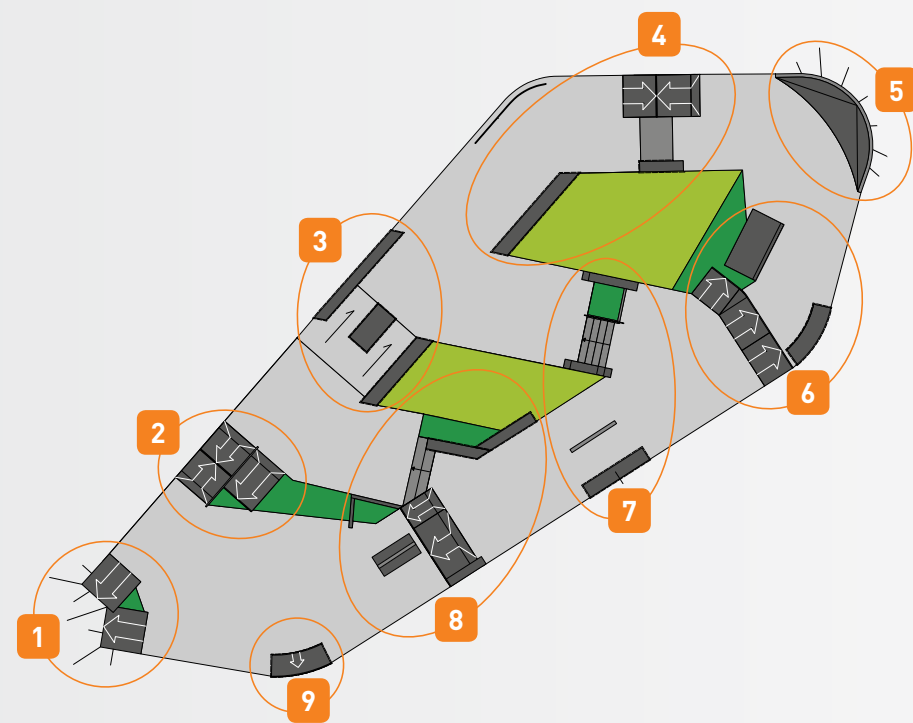
A lot has been changed in this respect during the past few years: our obstacles got more elegant and are versatile to skate on. What we are going to present you here is just a little teaser for the complete range of products. And if even that does not yet provide the perfect solution for you, we of course design tailor-made products for you on request.

You do not have to think for yourselves how to best link the components: you just make a selection and provide us with your framework conditions – our expert designers then create a functional and appealing skate park thereof.

from page 57



Skate Park | Gießen



- 1 Street Hip
- 2 Rooftop with Squarerail and Kicker Gap
- 3 Curbs and Wheelie Table
- 4 Stairs with Low to High Curb and Rooftop
- 5 Taco
- 6 Banks with London-Gap and Curved Curb
- 7 Stairs with Handrail, Ledges and Gap, Rooftop Curb
- 8 Stairs with Low to High Curb, Banks with Ledge and Streetbank
- 9 Slope Curved Curb

► Skate Park Gießen

From planning to installation

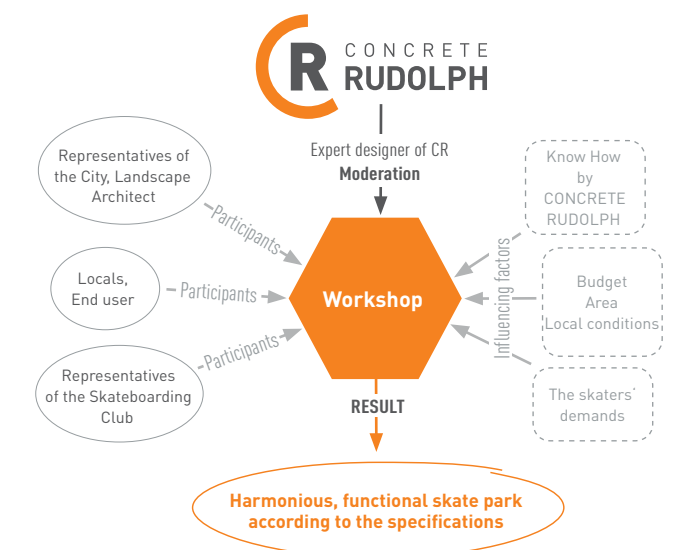
The customer in dialogue with experts and users

In the course of the State Garden Show 2014 Gießen was to be given a skate park. Based on this enquiry our expert designers moderated a planning workshop for representatives of the city, the skateboarding club Gießen, and the landscape architects to define the framework conditions: budget, area, local conditions, and the ideas of the future users were incorporated in the first draft for the park.

The concept was then followed by a concrete planning and testing phase. As the arrangement and the dimensions of the elements have enormous influence on the dynamism of a park planning experience of decades is indispensable. For example, we had tested and adapted the Taco – an essential run-up element for the driving flow – several times by means of wooden 1:1 models until the required driving properties were achieved.

We created the rendering and plans and discussed them in another planning workshop. Together, the participants developed an appealing and functional park which today is among the most popular skate spots of the region.

And finally we also created the technical execution plan, defining in detail how the foundations, the prefabricated elements, and the flat had to be executed.



Rendering of an optimized concept after the workshop



Property before the groundworks



Installation of pre-cast concrete elements onto the foundations provided by the customer



Mould and double-layer reinforcement of the flat



Flat: finishing works and transition to the prefabricated elements

Fast construction progress with prefabricated elements

At first there are the groundworks and the creation of the different levels of height. The concrete foundations are prepared for the prefabricated elements. We then supply the completely prefabricated elements and put them onto the foundations by a truck-mounted crane to be installed.

The next step is to create the base layer and the moulds for the flats and the green spaces. Double-layer reinforcement mats are put onto the base layer and are indented with the reinforcement of the prefabricated elements. In-situ concrete then is applied and the flats are treated with power trowels and are carefully connected to the pre-cast concrete elements.

After a rest period of three to four weeks for the concrete to harden expansion joints are cut into the flat. Afterwards we are going to work on some details, grind the transitions between the flats and the obstacles and ready it is, the skate park.

- ▶ Total surface area: ca. 825 sqm
- ▶ Ca. 130 sqm thereof green space
- ▶ Costs: ca. 220,000 € net
- ▶ Incl. foundations and flats, plus groundworks and civil engineering



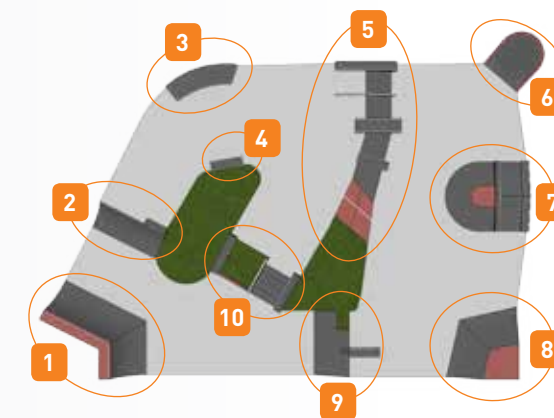
► Skate Park Concepts

For orientation and planning purposes



Free Skate Park Concept

- **Total surface area**
ca. 570 sqm
- ca. 55 sqm
thereof green space
- **Costs**
ca. 80,000 € net
- Plus transport and
installation, as well as
foundations and flat
- Plus groundworks and
civil engineering

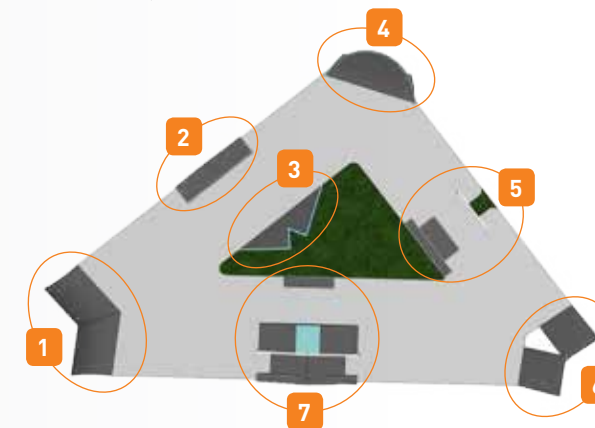


- 1 Quarter with Transition Hip
- 2 Rollin and Quarter
- 3 Curved Curb
- 4 Curb
- 5 Banks with Curbs and Rails
- 6 Bank
- 7 Funbox with Rainbowledge
- 8 Hip
- 9 Banks with London-Gap and Curb
- 10 Stairs with Handrail, Ledges and Gap



Skate Park Wuhletalstraße, Berlin

- **Total surface area**
ca. 405 sqm
- ca. 50 sqm
thereof green space
- **Costs**
ca. 87,000 € net
- Incl. transport and
installation, as well as
foundations and flat
- Plus groundworks and
civil engineering

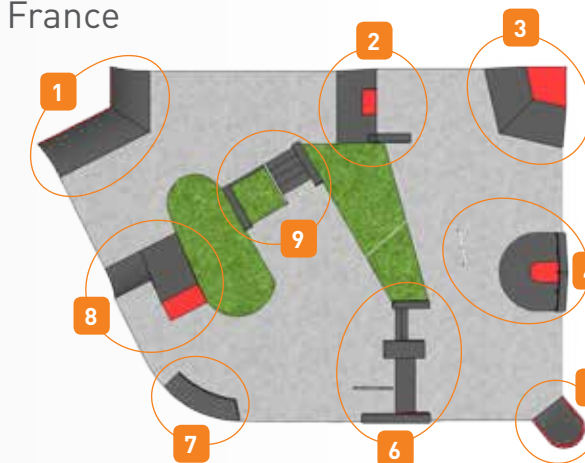


- 1 Quarter with Transition Hip
- 2 Rooftop Curb
- 3 Double Bank with Gap
- 4 Penny
- 5 Wheelie Table with Curb and Rail with Gap
- 6 Street Hip
- 7 Funbox with Rooftop, Ledge and Rail



Skate Park Crevic, France

- **Total surface area**
ca. 570 sqm
- ca. 65 sqm
thereof green space
- **Costs**
ca. 75,000 € net
- Plus transport and
installation, as well as
foundations and flat
- Plus groundworks and
civil engineering



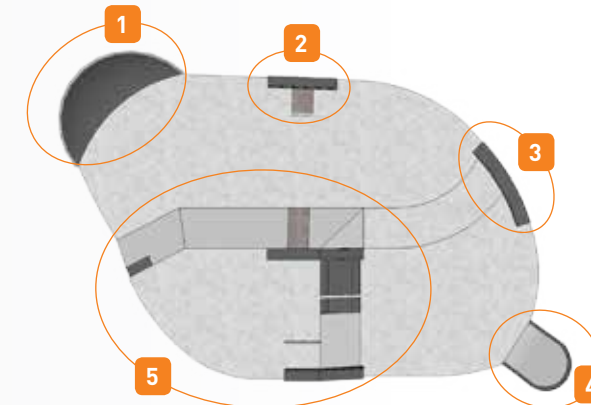
- 1 Quarter with Transition Hip
- 2 Bank with London-Gap and Curb
- 3 Hip
- 4 Funbox with Ledge
- 5 Bank
- 6 Bank, Stairs with Curbs and Rail
- 7 Curved Curb
- 8 Quarter with Rooftop Bank
- 9 Stairs with Handrail, Ledges and Gap



Skate Park | Diez

Skate Park Diez, Germany

- ▶ **Total surface area**
ca. 400 sqm
- ▶ **Costs**
ca. 140,000 € net
- ▶ Incl. transport and installation, as well as foundations and flat
- ▶ Incl. ground works and civil engineering



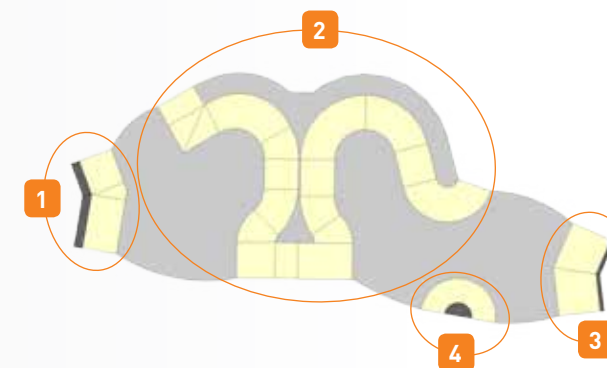
- 1 Taco
- 2 Curb and Rail with Gap
- 3 Low to High Curb
- 4 Bank
- 5 Double Stairset with Bank, Ledges, Rails and Curb



Skate Park | Nauen

Skate Park Nauen, Germany

- ▶ **Total surface area**
ca. 370 sqm
- ▶ **Costs**
ca. 145,000 € net
- ▶ Incl. transport and installation, as well as foundations and flat
- ▶ Plus groundworks and civil engineering



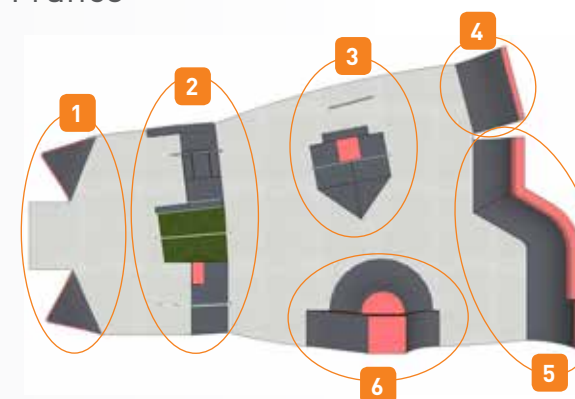
- 1 Quarter with Transition Hip
- 2 Transition Snakerun with Spine and Jump ramp
- 3 Vulcano
- 4 Quarter with Transition Hip



Skate Park | Meaux

Skate Park Meaux, France

- ▶ **Total surface area**
ca. 510 sqm
- ▶ ca. 12,5 sqm thereof green space
- ▶ **Costs**
ca. 80.000 € net
- ▶ Plus transport and installation, as well as foundations and flat
- ▶ Plus groundworks and civil engineering



- 1 Banks
- 2 Stairs and Banks with Ledges, Handrails and London-Gap
- 3 Funbox with Rooftop, Rail and Hip, Curb and Rail
- 4 Bank
- 5 Snakerun with Transition Hip
- 6 Jump ramp with Vulcano

MODULE CATEGORIES



Skate Park | Tirschenreuth

Funbox

A Funbox combines several obstacles to one unit that allows a multitude of tricks.

from page 59



Skate Park | Zwickau

Connector Elements

These elements close the gaps between the other obstacles, thus taking care of smooth transitions.

from page 73



Skate Park | Diez

Grind Elements

Rail & Curb

Edges and rails like stair rails are used by skaters for grinding and sliding – i.e. to slide across with the axes or the board.

from page 63



Skate Park | Munich

Miniramp & Halfpipe

Halfpipes and Miniramps are two opposing ramps with a landing on both sides.

from page 77



Skate Park | Gießen

Run-up & Boundary Elements

Ramp, Bank, Quarter, Wallride

These elements are suitable as a starting point for the run, or provide sufficient momentum after a trick to move to other targets.

from page 67



Skate Park | Oschatz

Bowls

A Bowl or a Pool is a depression that is surrounded by transitions on all sides.

from page 81



Skate Park | Tirschenreuth

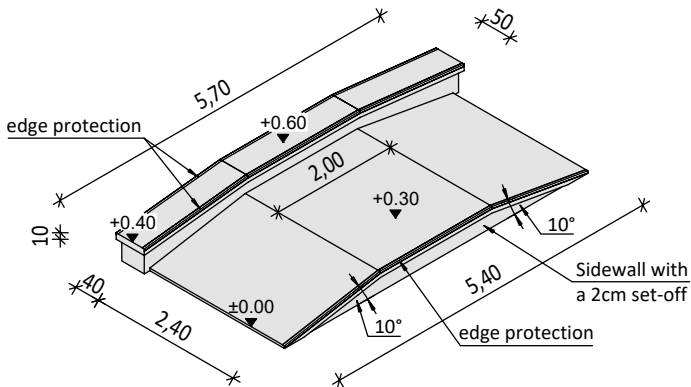
► **Funbox**

Several obstacles combined in just one element

When driving a Funbox the skater can give full expression to his creativity. Owing to the great many trick variations on the Curbs, Ledges, Banks, Transitions, etc. it is a constant challenge for beginners and advanced skaters alike.

Usually Funboxes can be used from several sides. For this reason they are best located in the middle of a park so that they are accessible from all sides with sufficient space for run-up and run-off.

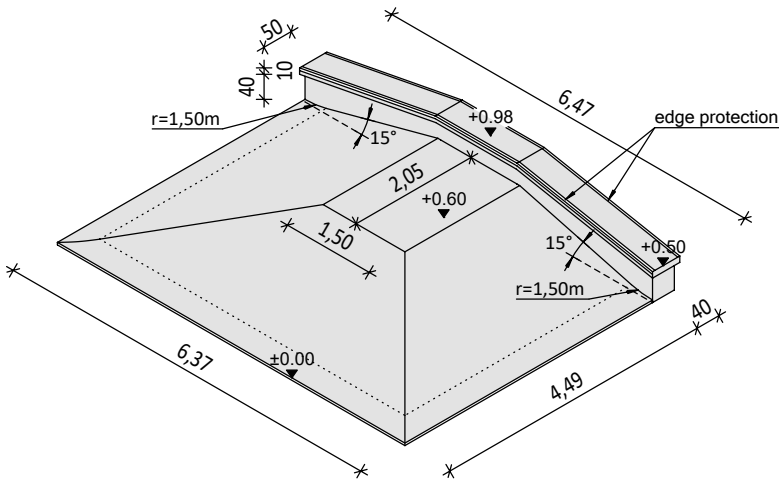
The Funboxes in this brochure are meant as suggestions and may be expanded, reduced or completely individualized. We would be pleased to check your special requests for riding quality and whether they meet the current EN 14974:2006 standard, of course.



Board bank with Kink Ledge

Item no.: BC030
Length: 570 cm
Width: 290 cm
Height: 30 / 60 cm

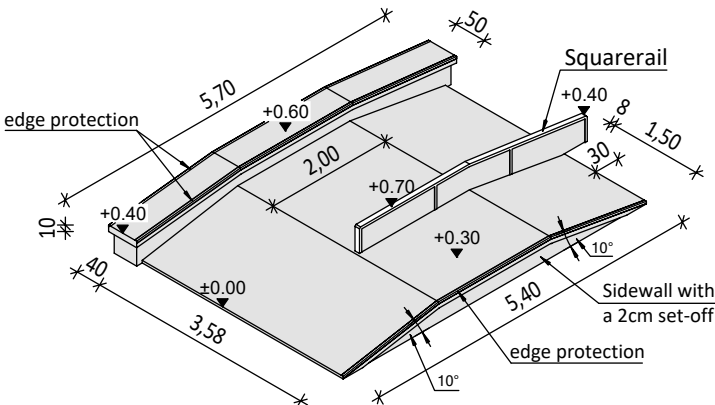
Visible areas are closed on all sides.



Kink Ledge Pyramid Kingsize

Item no.: KLK10
Length: 647 cm
Width: 489 cm
Height: 60 / 98 cm

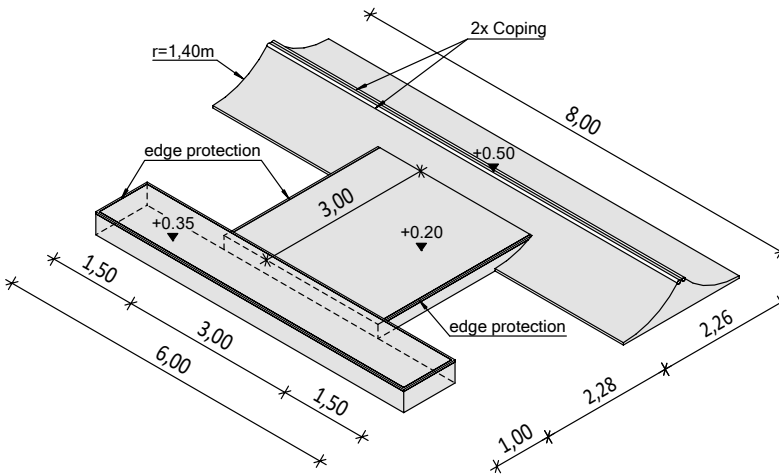
Visible areas are closed on all sides.



Board bank Kingsize with Kink Ledge

Item no.: BK030
Length: 570 cm
Width: 408 cm
Height: 30 / 60 cm

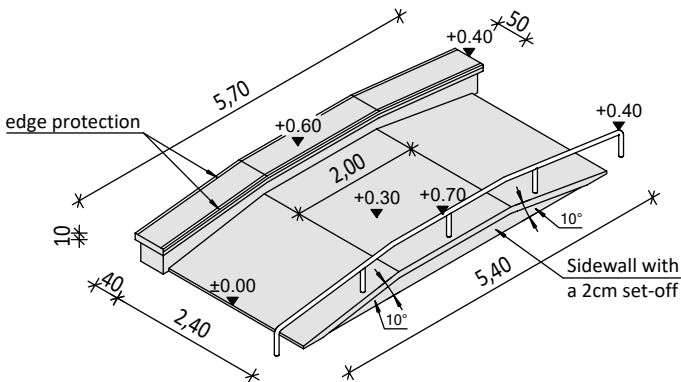
Visible areas are closed on all sides.



Spin-Curb Box

Item no.: SCB050
Length: 800 cm
Width: 554 cm
Height: 50 cm

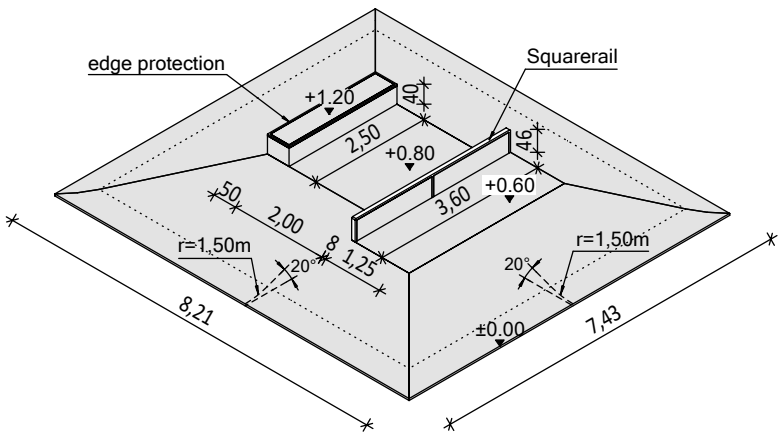
Visible areas are closed on all sides.



Boardbank with Rail

Item no.: BCR01
Length: 570 cm
Width: 290 cm
Height: 30 / 60 cm

Visible areas are closed on all sides.



Grind Pyra Box

Item no.: GPB10
Length: 821 cm
Width: 743 cm
Height: 60 / 80 / 120 cm

Visible areas are closed on all sides.



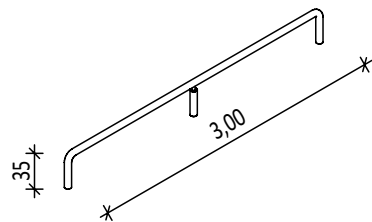
► Grind Elements

Glissade on rails and ledges

Rails, Ledges and Curbs are called Grind elements. Initially these were construction elements occurring in cities. Skaters grind and slide on the ledges and rails - things skaters should not have to do without in their park.

Grind elements can be incorporated in flat surfaces or in inclinations. Just like banisters in the city they lead down the steps or are located on banks. The heights and lengths of the rails and curbs are based upon the ability of and the required challenge for the skaters.

We provide Grind-edges with an edge protection, with a coping, or simply of pure concrete.



► Rail as Round Rail

	STRAIGHT	INCLINED
Item no.:	HR001	HRS01

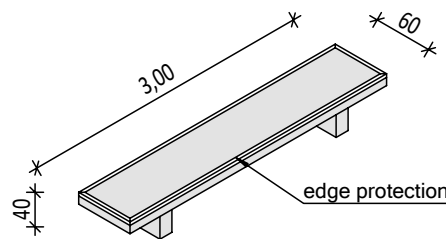
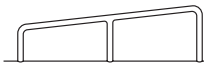
Diameter: 1.5 / 2 inch
Length: 300 - 500 cm
Height: 20 - 98 cm

Individual production possible.

STRAIGHT



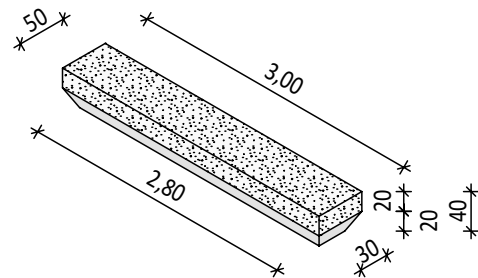
INCLINED



► Bench

Item no.: BE300
Length: 300 cm
Width: 60 cm
Height: 40 cm

As a seating option on skate parks.
Element with galvanized edge protection.



► Venice Bench

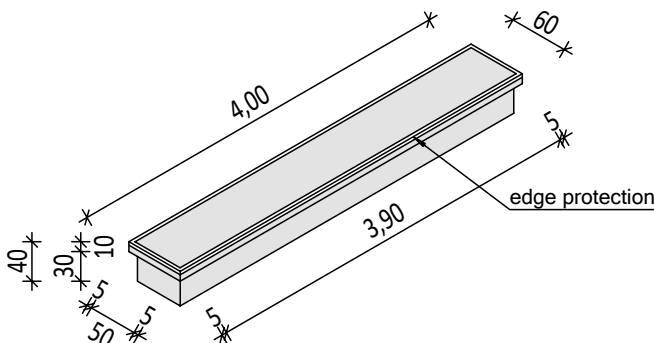
Item no.: VB001
Length: 300 cm
Width: 50 cm
Height: 40 cm

Solid element, without edge protection
[wear and tear] 10 mm, rounded.

NATURE
uncoated



COATED

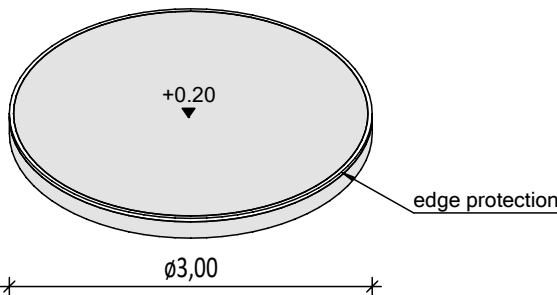


► Curb Box

Item no.:	CB001	CB002	CB003
Height:	40 cm	30 cm	20 cm

Length: 200 - 500 cm
Width: 60 cm

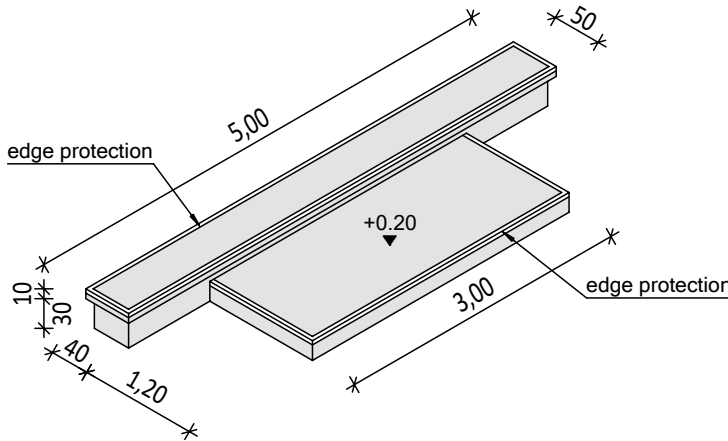
Solid element with galvanized edge
protection. Individual production possible.



► Wheelie Table

Item no.: OB002
Diameter: 300 cm
Height: 20 cm

Solid element with galvanized edge
protection. Individual production possible.



► Wheelie Table
Low | High

Item no.: OBC02
Length: 500 cm
Width: 170 cm
Height: 30 / 50 cm

Solid element with galvanized edge
protection. Individual production possible.



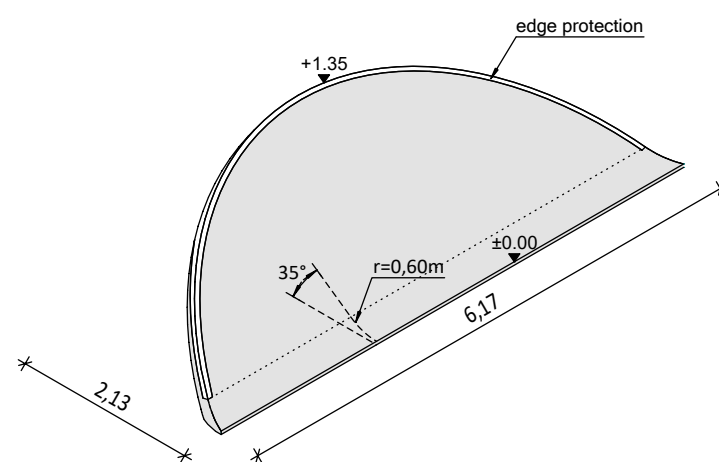
Skate Park | Tirschenreuth

► **Run-up & Boundary Elements**

Building momentum in the park

These elements are located in the boundary areas of a skate park where they provide sufficient momentum after a trick to move on to other targets. That way skating from ramp to ramp is in dynamic flow. This is what constitutes a good skate park. As run-up elements they are also perfectly suitable as a starting point for the course.

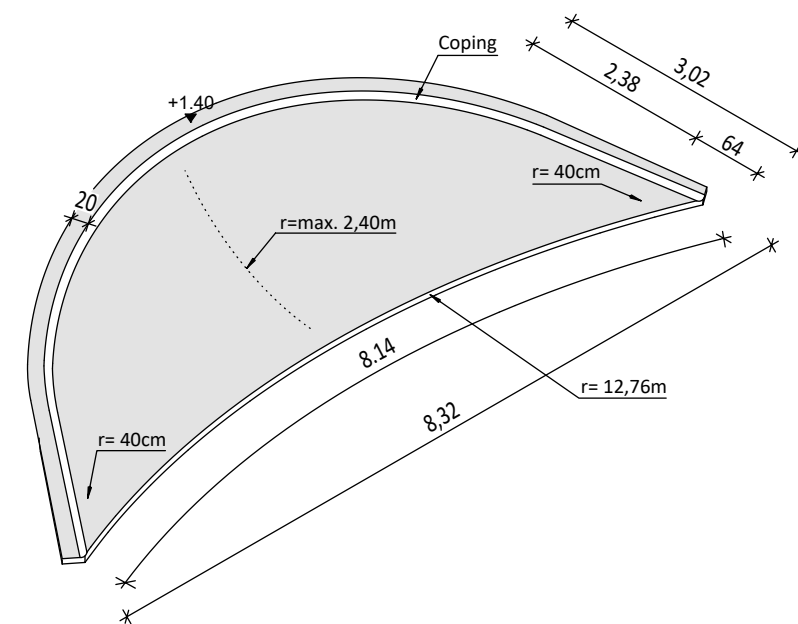
Each of these elements can be used on its own and allows for special tricks. Boundary elements such as Banks or Quarter pipes can be strung together by connector elements in different versions for a greater variety.



► Penny

Item no.: PEN01
 Length: 617 cm
 Width: 213 cm
 Height: 135 cm

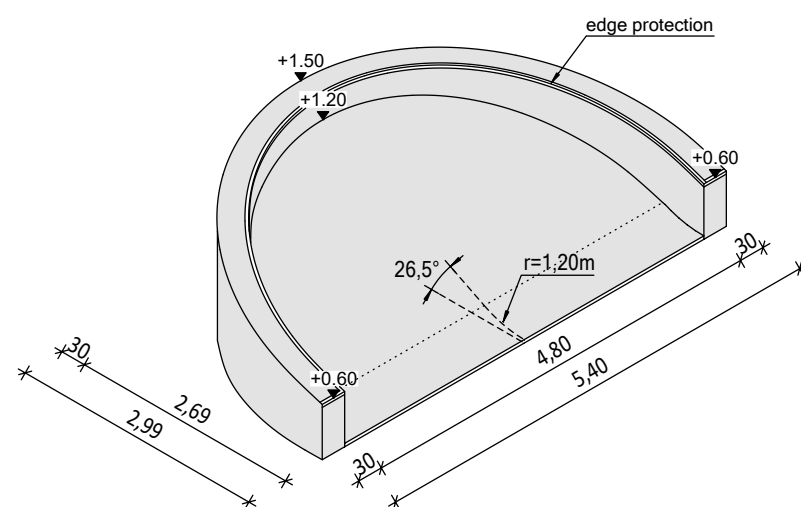
Solid element with galvanized edge protection. Individual production possible.



► Taco

Item no.: CRC01S
 Length: 832 cm
 Width: 302 cm
 Height: 140 cm

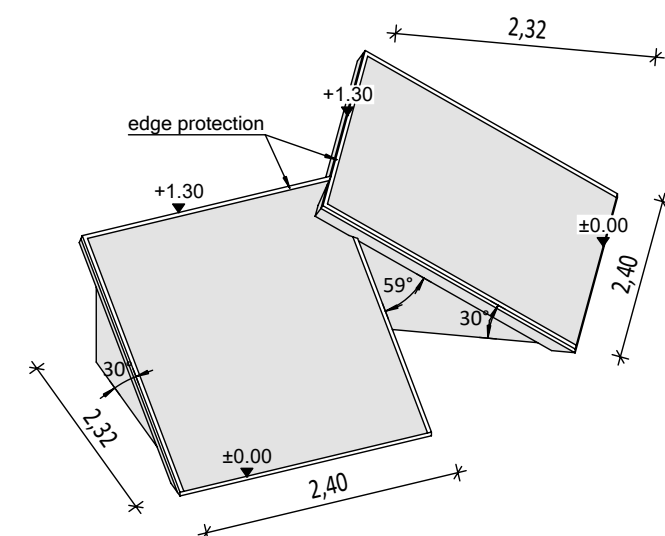
Individual production possible.



► Penny with Curb

Item no.: PEN02
 Length: 540 cm
 Width: 299 cm
 Height: 60 / 120 / 150 cm

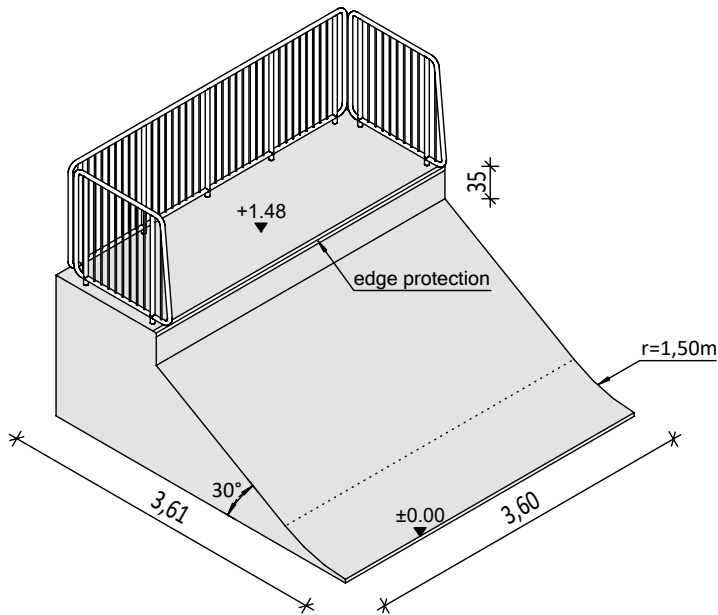
Individual production possible.



► Street Hip

Item no.: FEB13
 Length: 232 cm
 Width: 240 cm
 Height: 130 cm

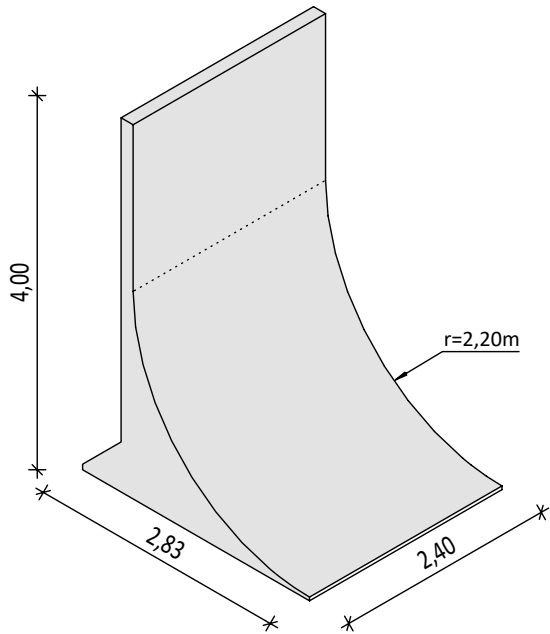
With variable angles.
 Solid elements with galvanized edge protection. Individual production possible.



► Bank with Extension

Item no.: BEX50
Length: 361 cm
Width: 360 cm
Height: 148 cm

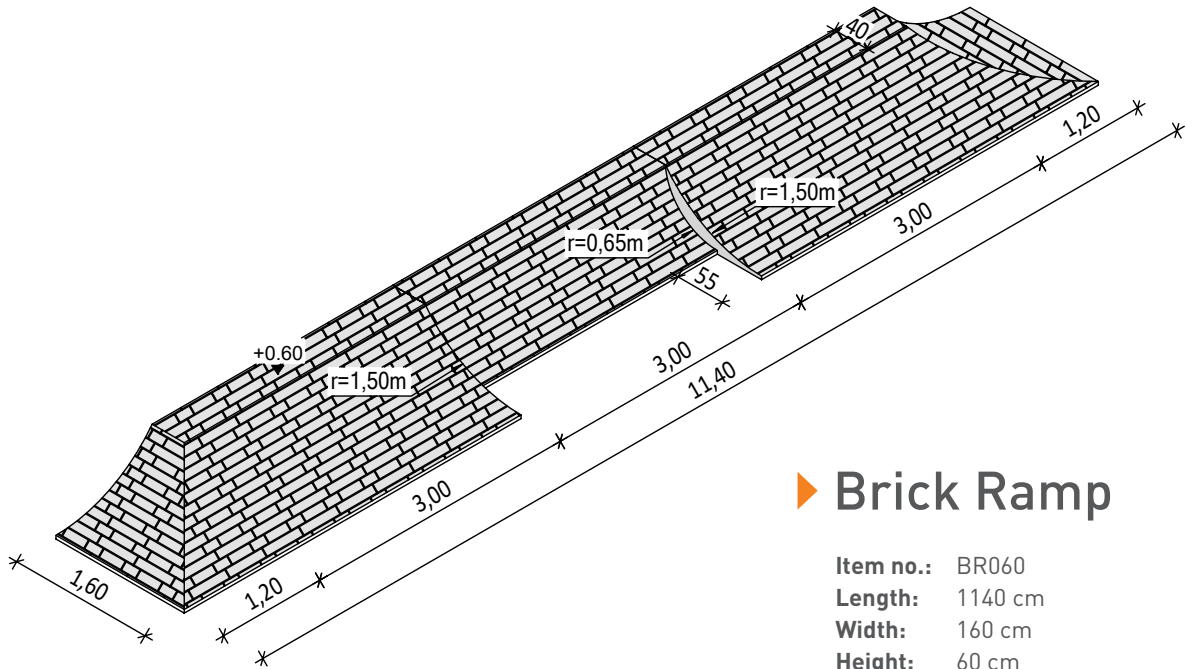
As an individual element closed on all sides for optimized cleanliness.



► Wallride

Item no.: WR150
Length: 283 cm
Width: 240 cm
Height: 400 cm

As an individual element closed on all sides for optimized cleanliness.



► Brick Ramp

Item no.: BR060
Length: 1140 cm
Width: 160 cm
Height: 60 cm

Clay-brick finished surface with joints, coated. An individual production would also be possible.

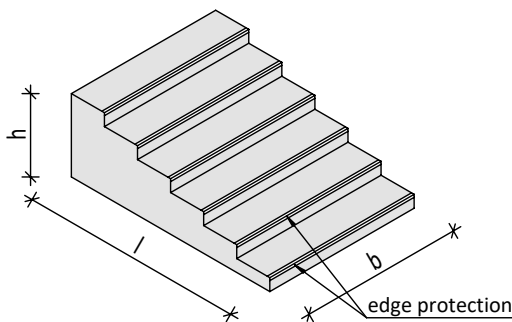


► Connector Elements

For smooth transitions

These inconspicuous elements will never stand alone as it is their task to close gaps between the obstacles, thus taking care of a smooth transition. The Bank is one of the classic connector elements to link two levels.

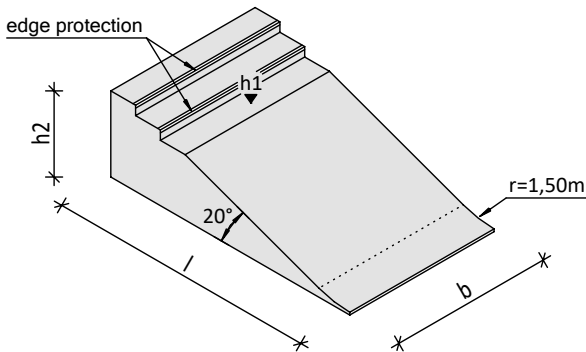
The Link-Edge Corner, on the other hand, has been developed by us. Owing to this novelty it is possible for the very first time to smoothly connect transitions (bended access) and banks (flat access). Where a gap had previously been created skating has now become possible on completely enclosed skate elements due to the link-edge. This allows for even more combinations and also makes skating more interesting and also safer.



Stairs

- Item no.: TR... (according to execution)
- Length: 165 - 385 cm
- Width: 120 - 360 cm
- Height: 60 - 148 cm
- Stairs: 3 - 7
- Rise of step: 19.6/54 - 21.1/58 cm (depending on the element height)

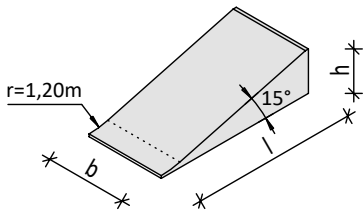
Stairs are only admissible in connection with a table. The stairs are available with galvanized edge protection.



London Gap 20° with Stairs

- Item no.: LG... (according to execution)
- Length: 274 - 485 cm
- Width: 240 cm
- Height: 60 / 80 - 110 / 148 cm

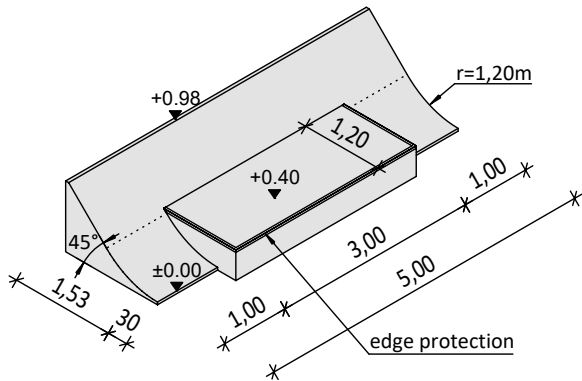
Only possible in connection with a standing area.



Bank 15°

- Item no.: B.... (according to execution)
- Length: 133 - 573 cm
- Width: 120 - 360 cm
- Height: 30 - 148 cm

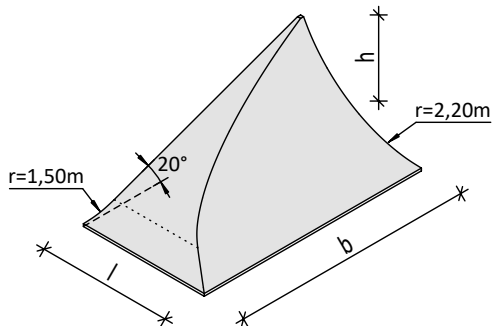
In case of a free-standing Bank with an element height of <100 cm it is only admissible in conjunction with a table and a falling protection. The Bank is available with a galvanized edge protection on request.



Bank 45° with Curb

- Item no.: BC098
- Length: 500 cm
- Width: 183 cm
- Height: 40 / 98 cm

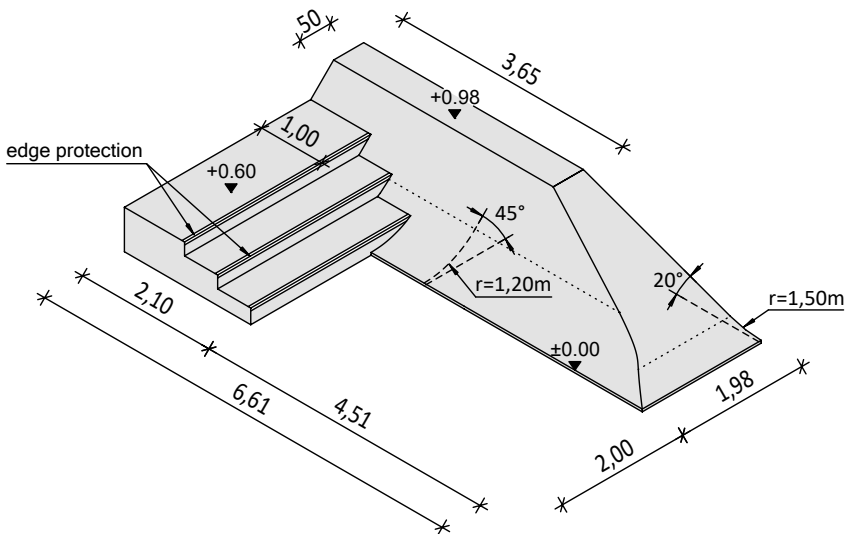
Only possible in connection with a standing area.



Link Edge 20°

- Item no.: LE... (according to execution)
- Length: 225 - 438 cm
- Width: 175 - 213 cm
- Height: 80 - 148 cm

Corner as a linking element between Ramps and Banks.



Bank 45° with Bank and Hip

- Item no.: BMT98
- Length: 661 cm
- Width: 398 cm
- Height: 60 / 98 cm

Individual production possible.

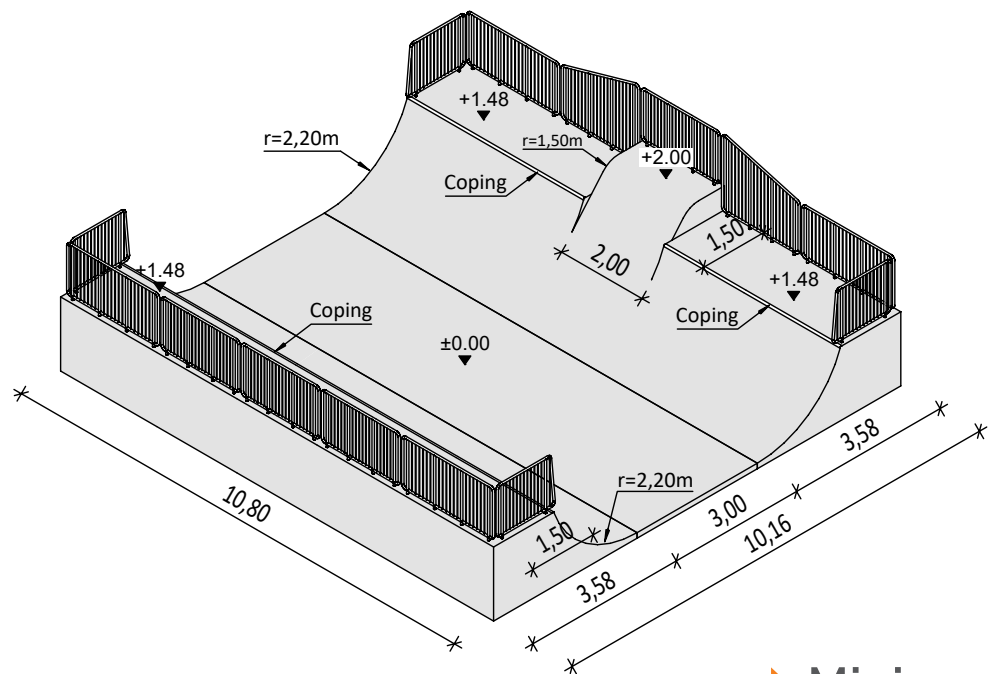


► **Miniramps & Halfpipes**

For spectacular jumps

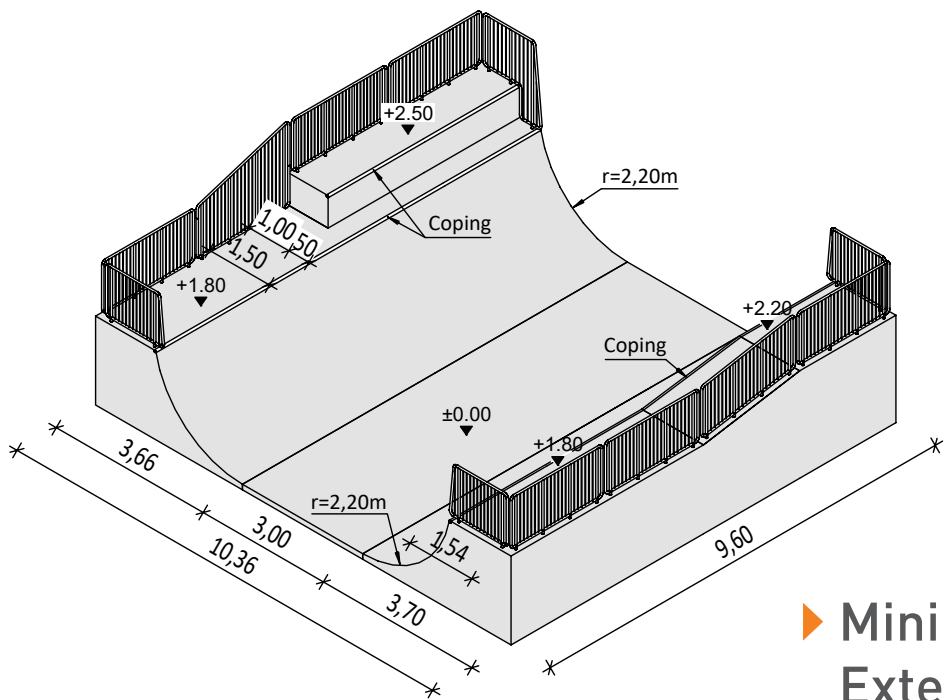
Halfpipes and Miniramps are two opposing ramps with a landing on both sides for building up speed to make tricks on the coping pipe, which let the user have control of the level of challenge. These elements therefore are suitable for both beginners and advanced skaters.

Miniramps are closed elements and can thus be separately planned. Please note that higher ramps shall be correspondingly broader to allow a safe ride. But also as a fun factor the width is of greater importance than the height. Different landing heights or embedding into a Bank may create additional options for variation.



► Miniramp with Roll-In

Item no.: HRR150
Length: 1016 cm
Width: 1080 cm
Height: 148 / 200 cm



► Miniramp with Extension, Subbox and Elevator

Item no.: HRE180
Length: 1036 cm
Width: 960 cm
Height: 180 / 220 / 250 cm



Skate Park | Rastatt

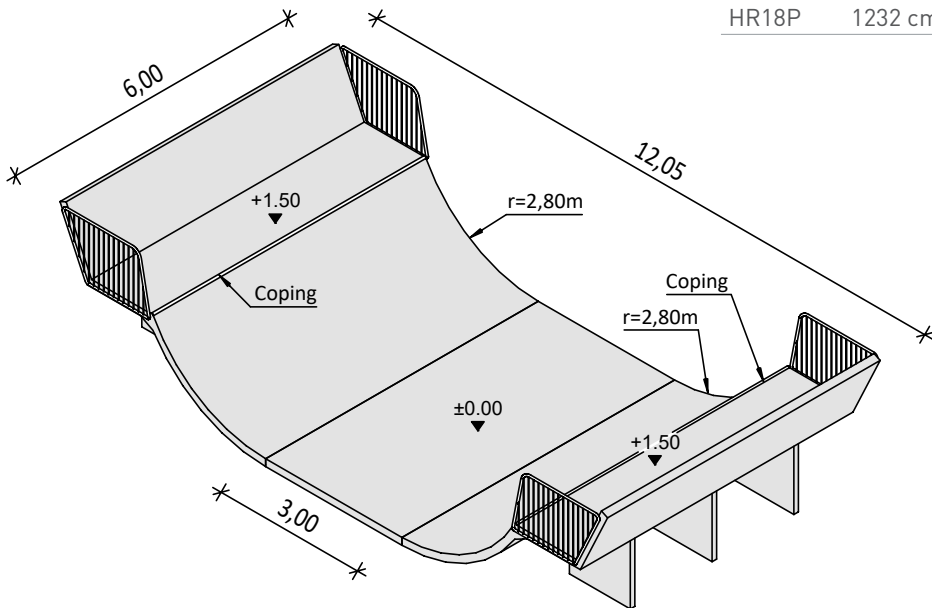
► Miniramp - Halfpipe

The modular dimension for the basic module is a width of 240 cm each (360 cm for HR15P and HR18P).

All basic modules may be expanded on both sides.
The minimum width for the respective construction heights for individual elements shall be observed according to EN 14974:2006:
h smaller / equal than 125 cm w/at least = 240 cm
h taller than 125 cm w/at least = 360 cm

This element is also available in a completely enclosed execution.

Item no.	Length	Width	Height
HR150	1205 cm	480 cm	150 cm
HR180	1232 cm	480 cm	180 cm
HR250	1300 cm	480 cm	250 cm
HR151	1205 cm	600 cm	150 cm
HR181	1232 cm	720 cm	180 cm
HR251	1300 cm	720 cm	250 cm
HR330	1414 cm	720 cm	330 cm
HR331	1414 cm	960 cm	330 cm
HR15P	1205 cm	360 cm	150 cm
HR18P	1232 cm	360 cm	180 cm



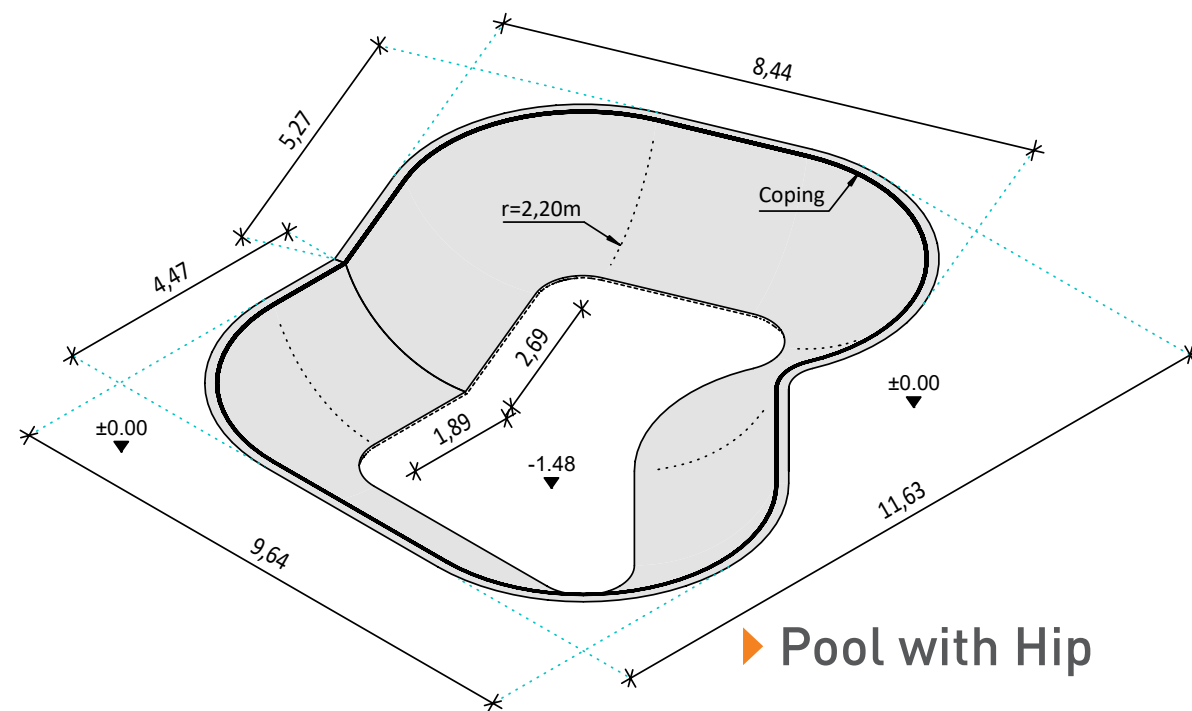


► **Bowls (Pools)**

Skatable concrete bowls

Pool skating originated in the USA in the 1970s where young people used empty swimming pools to skate in. They made this discipline so popular that the first concrete pools were soon to be found on skate parks.

In the late 1980s pool skating also arrived in Europe and has become virtually indispensable today.



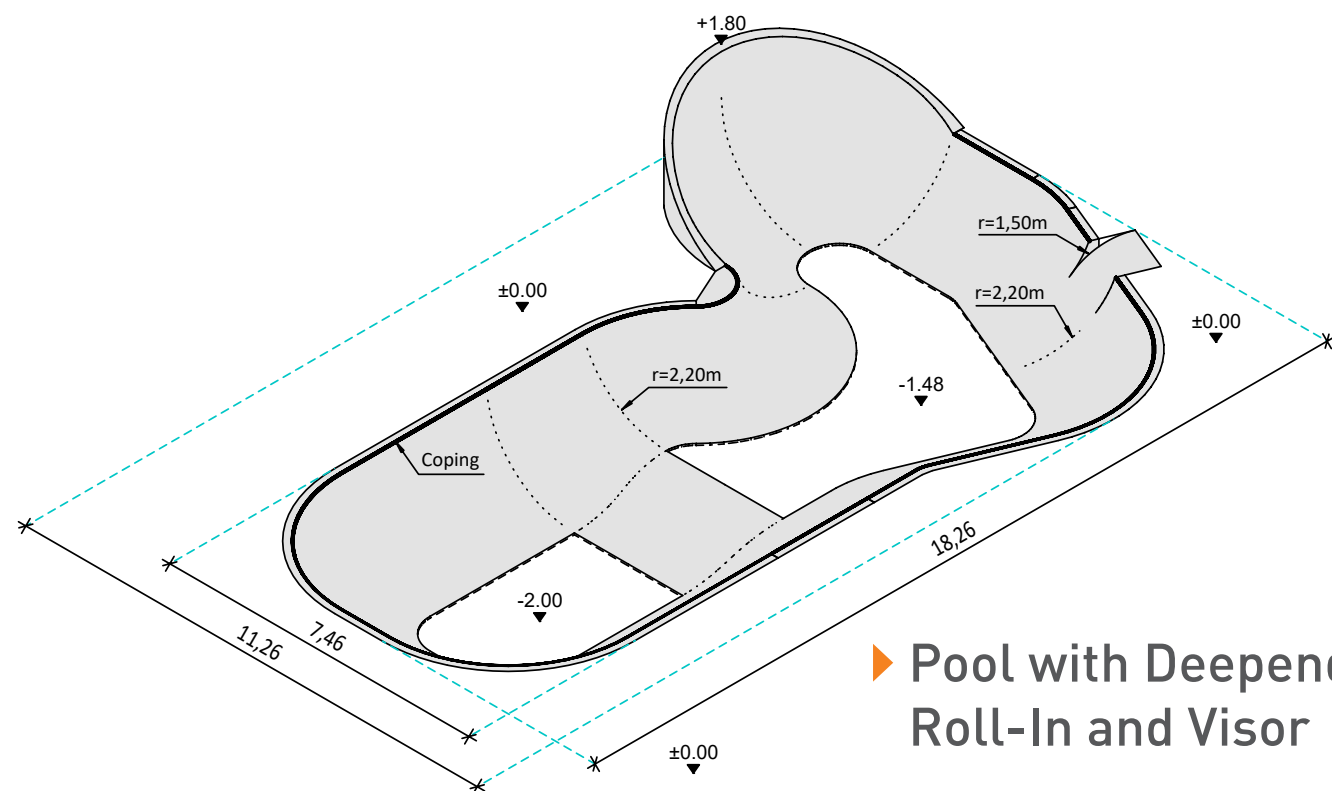
Pool with Hip

Item no.: PMH01
 Length: 1163 cm
 Width: 964 cm
 Height: -148 cm



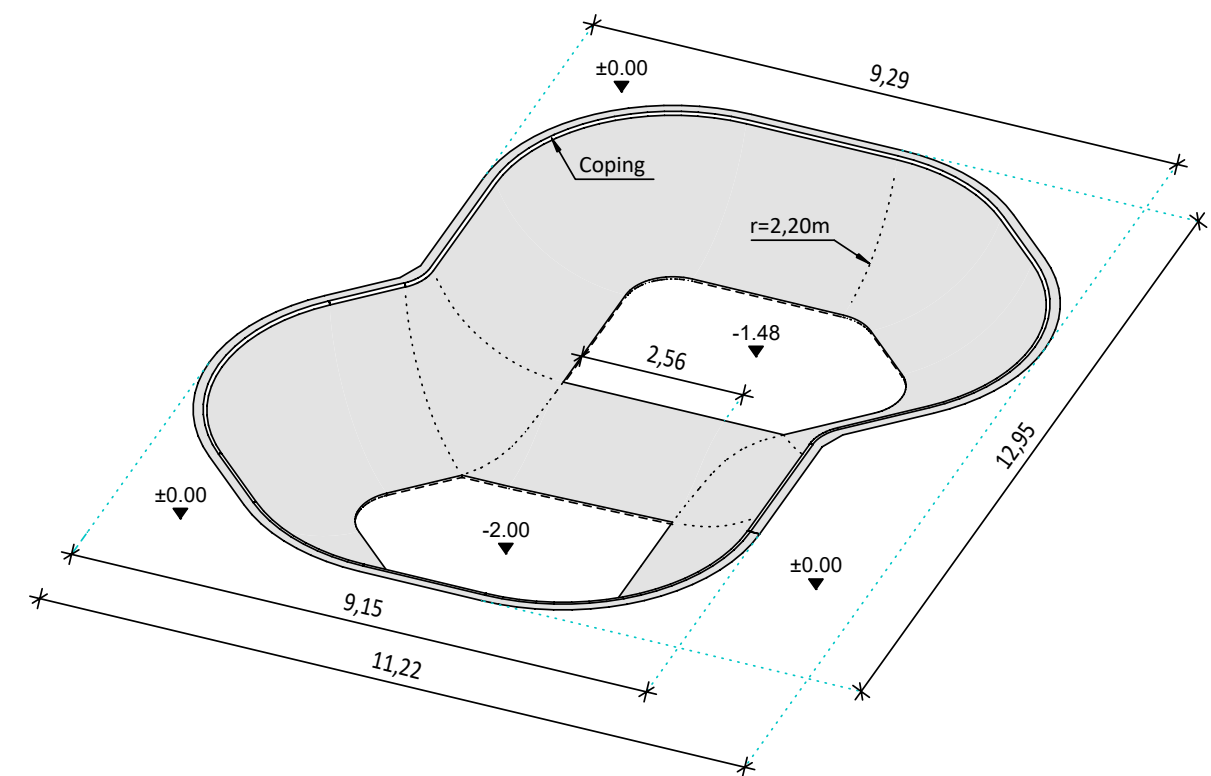
Bowl | Jeddah Saudi Arabien

All pools are only available in combination with a concrete flat. Groundwork and drainage to be provided by the customer.



Pool with Deepend, Roll-In and Visor

Item no.: PDV01
 Length: 1826 cm
 Width: 1126 cm
 Height: -200 / -148 / 180 cm



Pool with Deep and Low End

Item no.: PDL01
 Length: 1295 cm
 Width: 1122 cm
 Height: -200 / -148 cm



► General Product Information

Skate Parks

Advantages of Pre-cast Concrete Elements

Production Regardless of Weather Conditions

All elements are reinforced with two layers and are casted with high quality concrete (at least C40/50, XC4 + XF3). Production regardless of weather conditions is a huge advantage of pre-cast concrete elements: at the factory the concrete is able to harden at ideal temperature and humidity conditions at any given time.

Ideal Surfaces

We produce the elements „overhead“ in special moulds which results in a particularly solid surface due to an optimized compression of the concrete. Contrary to other materials also the running surfaces are very durable and do not have to be exchanged.

This considerably reduces operating costs.

Low Noise Emission

Skate elements of concrete absorb the noise created by skating due to their solid construction. This is something the neighbourhood loves to hear. Acoustic studies are available on request.

Quality and Safety

Quality Assurance

Our company of course works according to the ISO 9001 specifications. A continuous quality control / external monitoring ensures that only perfect products will leave our premises.

Easy Maintenance

Concrete provides increased protection against vandalism: on the one hand it is extremely robust, and on the other hand even crude mechanical damage can be easily repaired by means of a special repair mortar.

On the whole our facilities have a life cycle of several decades.

No Needless Risk of Injury

All copings are closed on the sides and we also do without screw fittings on our elements to the greatest possible extent. The rails, copings, metal transition sheets, and the edge protection are directly tied to the concrete, thus eliminating protruding screws.

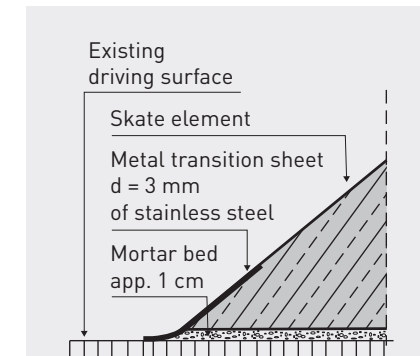
High-quality Accessories

Galvanized or of stainless steel

We meet our well-known quality standard also for accessories. Therefore all rails, copings and every edge protection are available in galvanized execution. The surfaces of this material are particularly suitable for tricks and are therefore preferred by the users – even if spots of rust cannot be avoided in the long run due to the material.

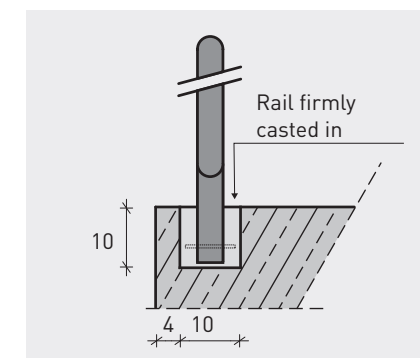
Whereas the metal transition sheets are made of rust-proof and weather-resistant stainless steel. They allow for a seamless transition from the skate element to an already existing driving surface.

Guard rails are firmly casted into the concrete without screws, as are the edge protection, the copings, and the metal transition sheets. This sophisticated production process protects your investment and saves you conventional maintenance works for the elements.



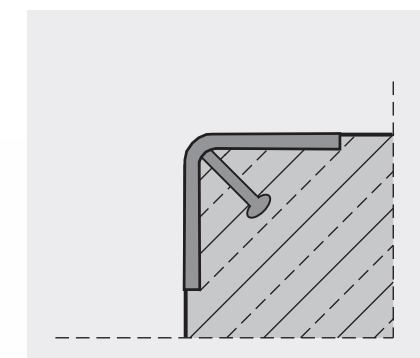
Metal transition sheet

FIRMLY CASTED



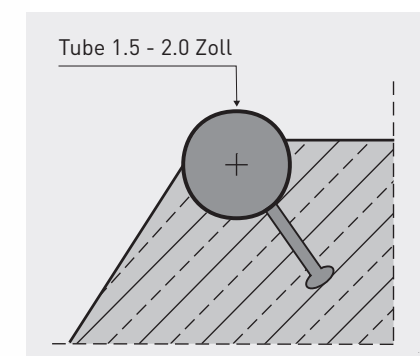
Rail fixation

FIRMLY CASTED



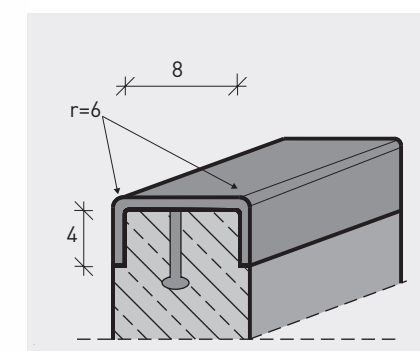
Edge protection

FIRMLY BRACED



Coping

FIRMLY BRACED



Square rail

FIRMLY BRACED

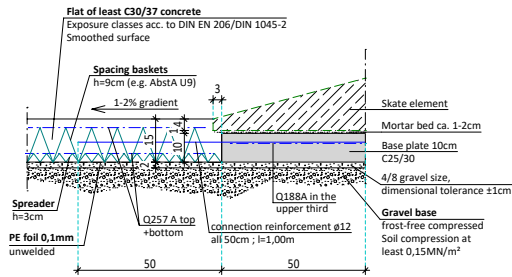
Free Planning

Lots of experience is required to design a complete skate park: The obstacles have to be matched exactly so that the skaters can combine them dynamically. We plan a harmonious and functional park for you that is tailor-made to your specifications.

The references and Obstacles listed in this brochure are examples for your first orientation. But ultimately we plan each park individually. For this purpose we moderate planning workshops and

prepare free drafts for you that are responsive to the future users’ requests, take into account the local conditions, and are tailored to suit your budget.

This is then followed by an extensive project planning phase during which we supply detailed plans for foundations, reinforcements, and the flat. If required we also offer to check the drawings according to DIN/EN 1176.



► SECTIONAL DRAWING THROUGH SKATE ELEMENT:
FRONT SCALE

Coating – Joints

CREFIX coating
In cooperation with skaters we developed a special coating material that achieves ideal running properties: the covering is fast and has a good grip. It dries fast because the water just runs off and allows freedom of design as per the RAL colour shades.

The surface finish consists of an environmental friendly CREFIX coating. As a result damage can be easily and economically repaired later on, and after re-coating the elements are back into shape.

Sturdily grouted
Joints in the running surface are hard-grouted on site with a mixture of synthetic resin and sand because the rolls will remove soft joints (e.g. silicone) after a short period of time already.

In case of multipart Obstacles we therefore apply the coating only after the installation works to ensure a consistent appearance, whereas individual elements without joints are delivered in a completely coated manner.

Fine capillary chinks in the grouted area are caused by construction and are unavoidable. These chinks, however, only occur in a well-defined area and are not relevant for riding.

Delivery and Installation

Delivery
All elements are delivered on articulated lorries. That is why free passage of 5 m shall be ensured. Placement and installation is made by a truck-mounted crane commissioned by us (in Germany only).

Installation in case of an asphalt flat
The pre-cast skate elements are only put onto asphalt flat and are levelled out if required in case of unevenness of the terrain to create a smooth connection to the metal transition sheets. That way skate facilities are created without a huge construction site and can easily be relocated in case of a later rearrangement.

Installation in case of a concrete flat
In case of a skate park with a concrete flat our technical implementation plan specifies the services to be provided by the customer: from groundworks to the preparation of height levels and the execution of the foundations and flats. Our prefabricated skate elements are put on the foundations for installation. The flat is worked towards the prefabricated element when created, thus providing a smooth transition.

Warranty

Up to 20 years
We only use high-class materials and are very experienced in constructing skate facilities. This is why we grant you a warranty of 10 years for material and processing.

After the first decade we offer to redo the skate park for a defined fixed price and then extend the warranty for another 10 years.

Maintenance and preservation

By annual inspections
With a separate service contract you can also protect yourself against damage of use: We inspect the complete facility once a year and remove all damage that have an effect on the safety or function. This inspection is documented with photos and an inspection report.



Skate Park | Nuremberg



Skate Par | Hemer

► Skate Encyclopaedia

Air

Describes a jump beyond the Coping of a Ramp and is also the generic term for tricks that are made in the air.

Bank

An inclined level without a curve – a must-have.

Coping

The terminal edge of a Quarter, Ramp or Bowl. The Coping is made of a galvanized steel pipe.

Cradle

Expands one side of the Bowl upwards beyond the Coping and gradually changes into a dome-shape.

Curb

A longish element – comparable to the course of a wall – with edges to slide and grind.

Flat

The even surface in a skate park on which obstacles are placed. Ideally the flat is of concrete.

Flat rail

A low horizontal bar to grind and slide.

Funbox

Usually a combination of Banks, Hips and Ledges accessible from several sides.

Gap

A Gap is an interruption of the riding surface which is overcome by jumps.

Grind

The skater slides across an obstacle with the axes of his board.

Handrail

The skate term for the handrail of a banister to grind and slide.

Rooftop

A rooftop of two adjacent Banks.

Hip

An angular arrangement of Banks or Quarters so that an edge is shaped in between.

Kink ledge

This Ledge begins with a horizontal element and gradually changes downwards to the incline with a kink.

Kicker

Relatively flat Bank serving as a jump.

Ledge

Ledges are Curbs with an incline, often directly following Stairs or a Bank.

London Gap

A Bank that leads upwards to a Table and is interrupted by a gap or stairs.

Loveseat

Refers to stairs in a Bowl.

Miniramp

Two opposing Quarterpipes linked by the Flat.

Bowl / Pool

A closed transition element based on an empty swimming pool.

Pyramid

An arrangement of Banks and partly also Quarters in the shape of a pyramid.

Quarterpipe

A Ramp with a Transition.

Obstacles

General term for obstacles that can be ridden on.

Skate spot

Describes the place of action; spaces where sport is exercised.

Slide

The skater slides across an obstacle with the wooden part of his board.

Table

Describes the flat surface of obstacles, e.g. a Funbox.

Transition

Identifies the radius or the curved access of Quarterpipes, Miniramps, and Pools.

Wallride

A short Quarter that gradually changes into a vertical wall.

Wheelietable / Manual pad

A slightly increased level on which the skaters like to make Wheelies where the skater balances on two rolls only.

»Playing has been
the first poetry of man.«

Jean Paul

Miniature Golf Units

Fun for the young and
for the older ones

Miniature golf enthral all generations and is also a popular leisure activity for the whole family during which both children and older people have a fair chance, as it is not strength that counts, but skilfulness.

The few rules can be learned quickly and off you go. Whether community, spa administration, hotel or leisure facility – a beautiful and well-kept miniature golf unit always is a magnet. Even on limited space it is possible to create appealing units, and if you have more space you can increase the recreational value with a park and lots of surrounding nature.



Miniature Golf | Bad Schwalbach

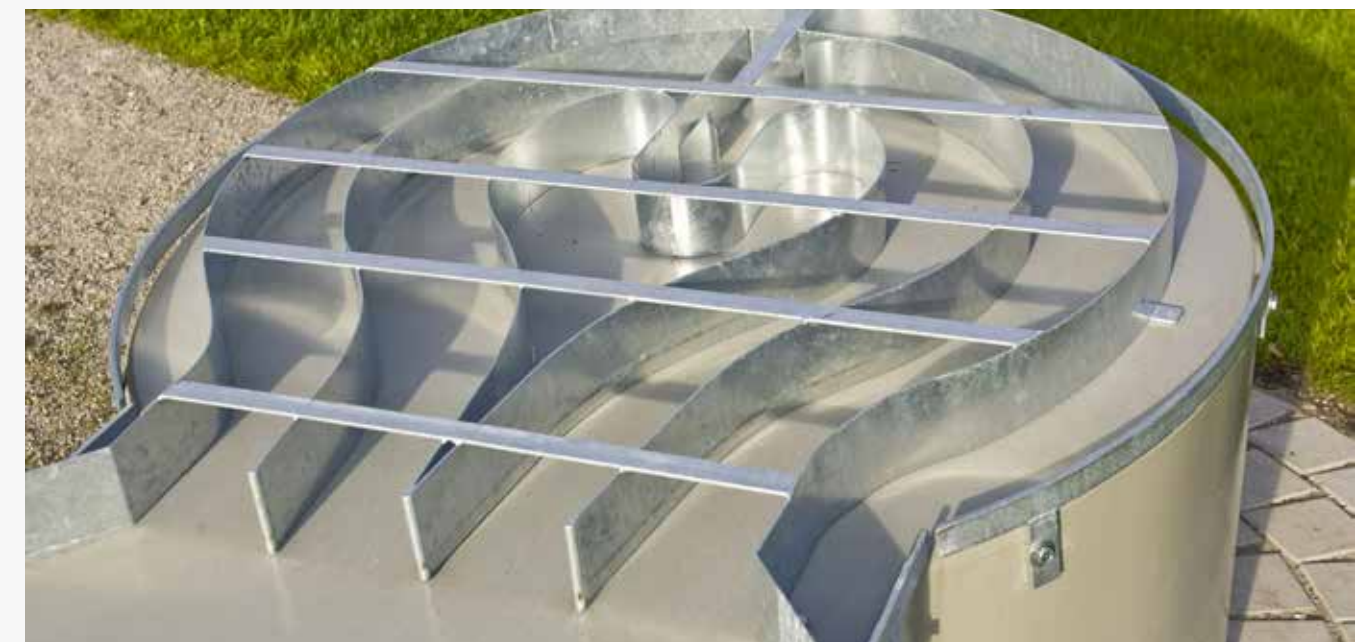
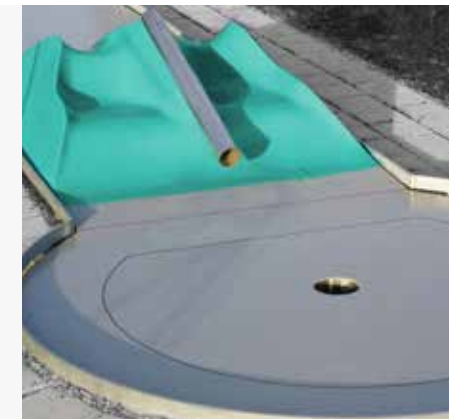
► Miniature Golf Units

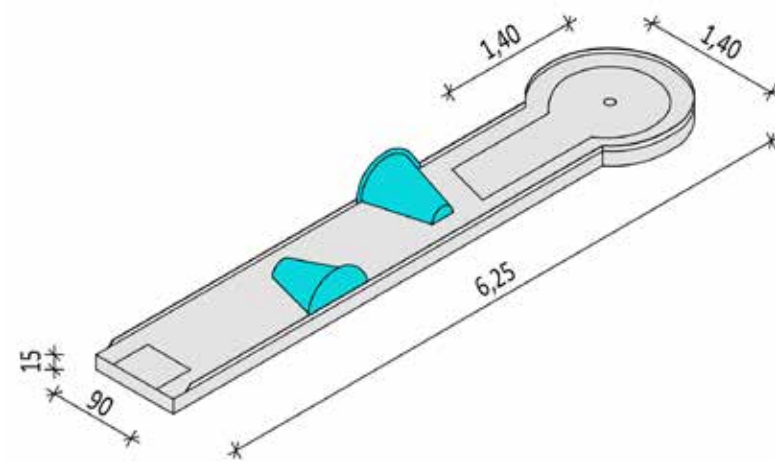
Tournament or individual

Our 18 courses meet all requirements for the tournament-version of a miniature golf unit. If this will not be of importance for you, however, you can freely compile the unit according to your very own taste. You can even add individual obstacles to the courses. Just be creative and stand out from the masses. We are able to make many things happen.



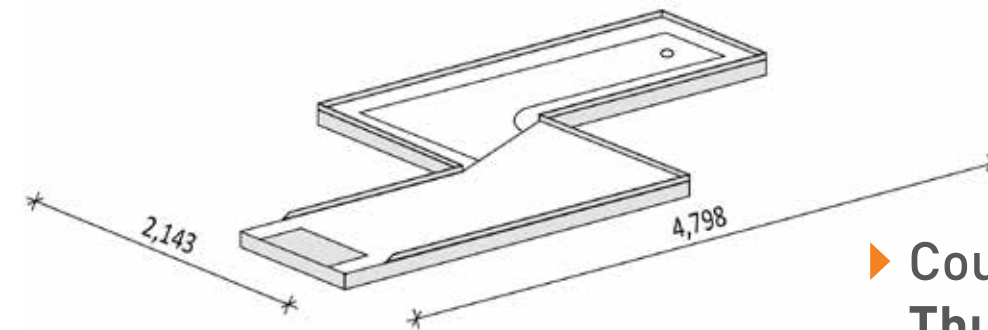
Miniature Golf | Munich





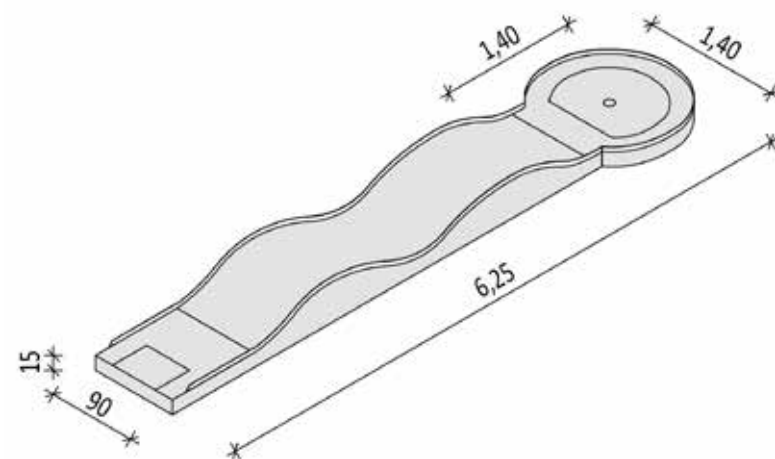
Course 1 Truncated cones

Item no.: MG001
 Length: 625 cm
 Width: 140 cm
 Obstacle: You can select the colour for the truncated cones from the RAL shades



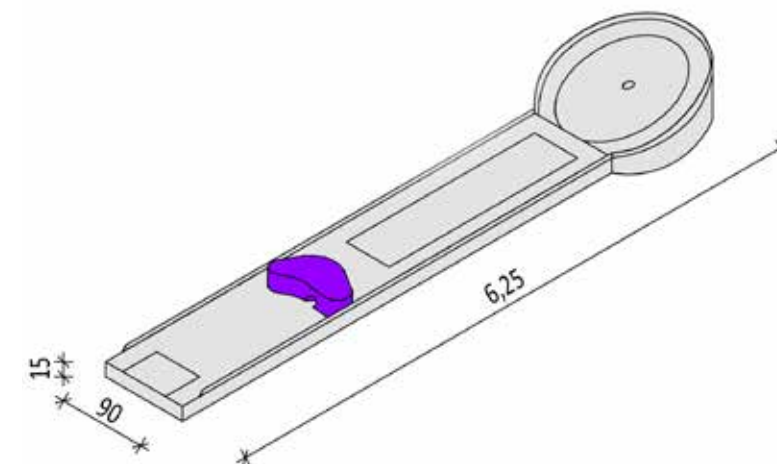
Course 4 Thunder

Item no.: MG004
 Length: 479 cm
 Width: 214 cm



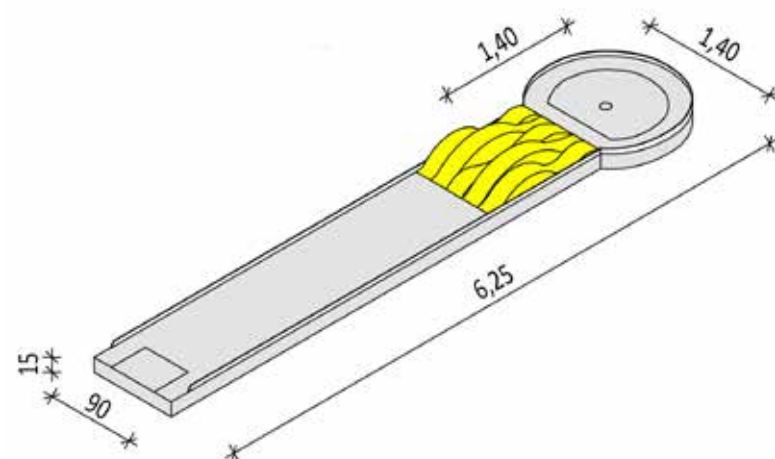
Course 2 Bump

Item no.: MG002
 Length: 625 cm
 Width: 140 cm



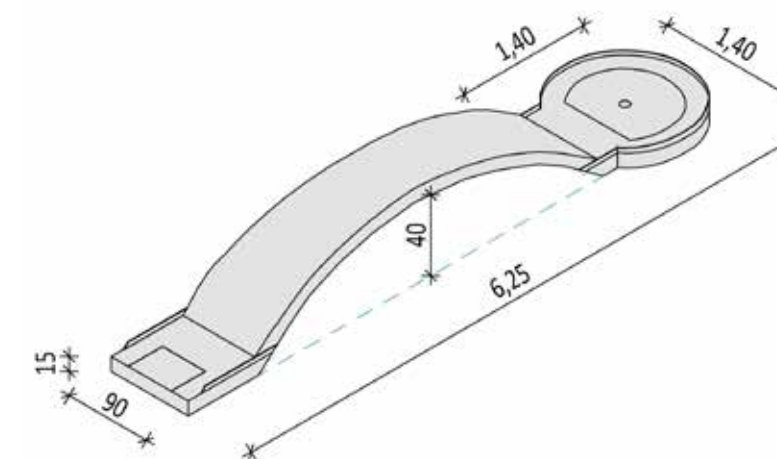
Course 5 Inclined circle with kidney

Item no.: MG005
 Length: 625 cm
 Width: 140 cm
 Obstacle: You can select the colour for the kidney from the RAL shades



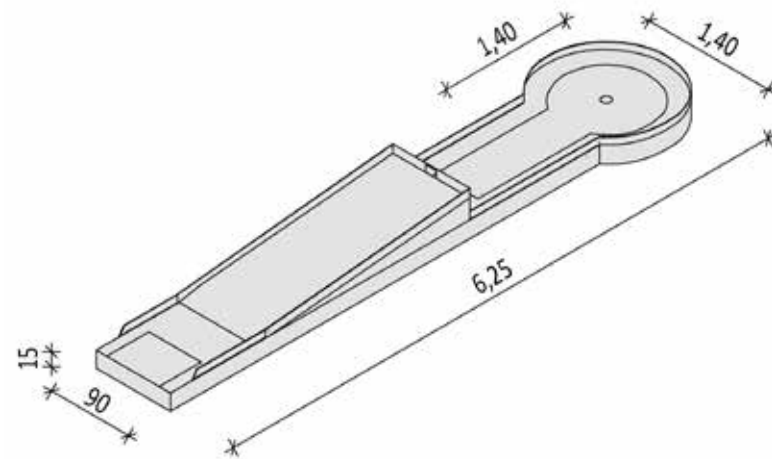
Course 3 Irregular passage

Item no.: MG003
 Length: 625 cm
 Width: 140 cm
 Obstacle: You can select the colour for the passage from the RAL shades



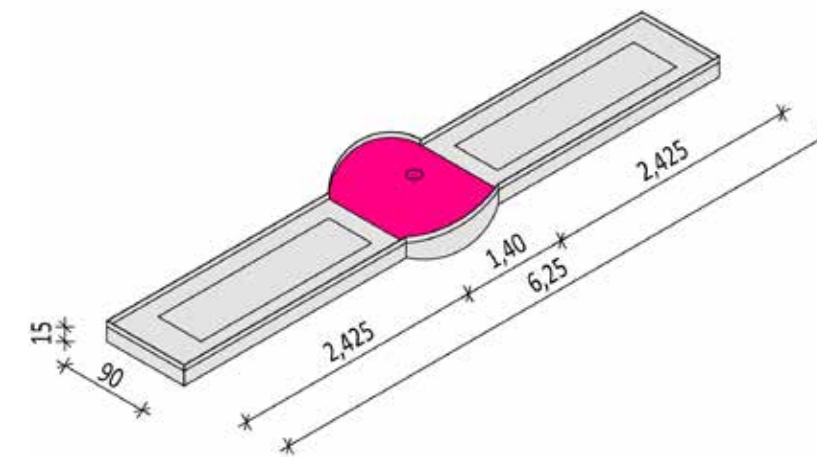
Course 6 Bridge

Item no.: MG006
 Length: 625 cm
 Width: 140 cm
 Height: 40 cm



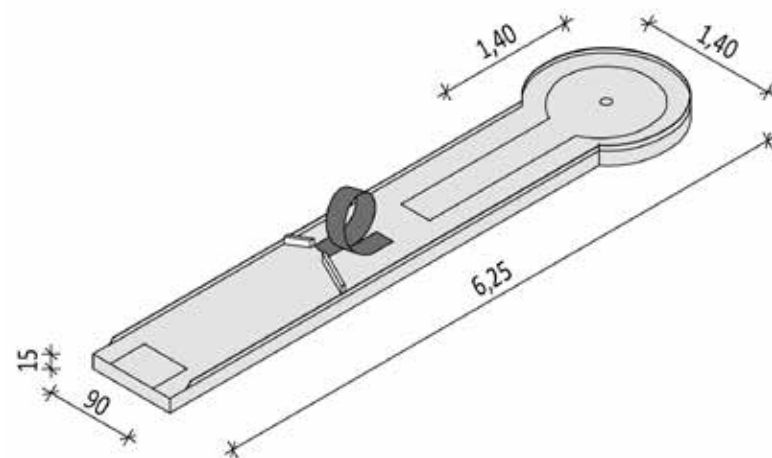
► **Course 7**
**Run-up wedge with
central passage**

Item no.: MG007
Length: 625 cm
Width: 140 cm



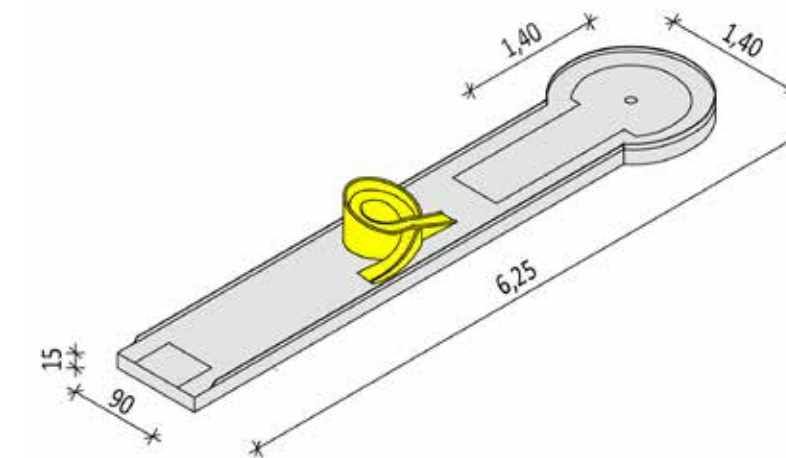
► **Course 10**
Central circle

Item no.: MG010
Length: 625 cm
Width: 140 cm
Obstacle: You can select the colour for the central circle from the RAL shades



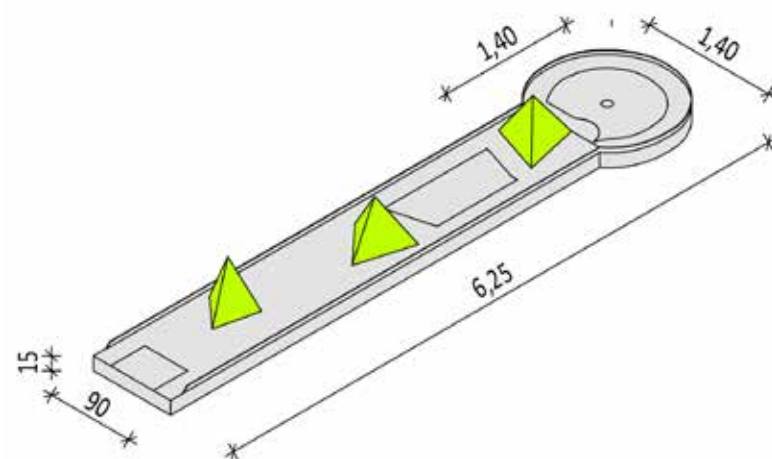
► **Course 8**
**Somersault with
angular barrier**

Item no.: MG008
Length: 625 cm
Width: 140 cm
Obstacle: Galvanized somersault



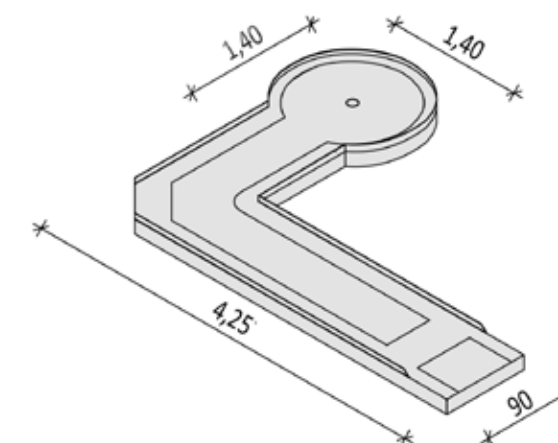
► **Course 11**
Horizontal loop

Item no.: MG011
Length: 625 cm
Width: 140 cm
Obstacle: You can select the colour for the horizontal loop from the RAL shades



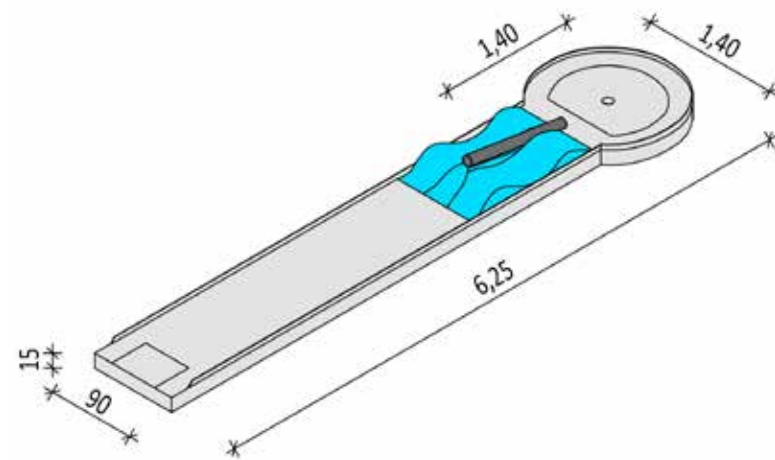
► **Course 9**
Pyramids

Item no.: MG009
Length: 625 cm
Width: 140 cm
Obstacle: You can select the colour for the pyramids from the RAL shades



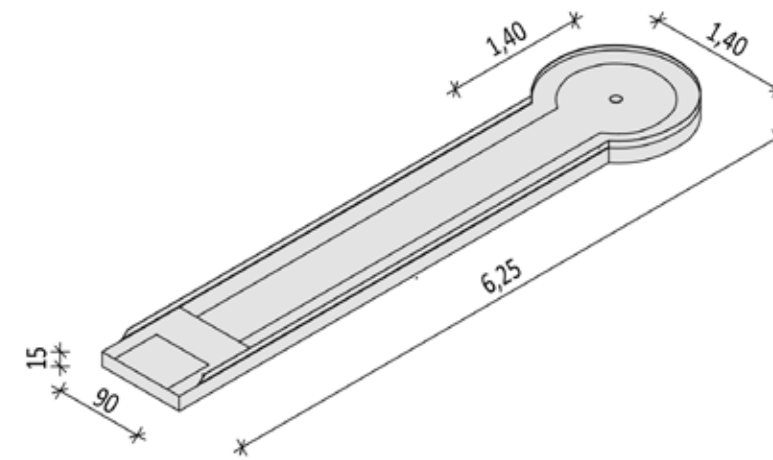
► **Course 12**
Right angle

Item no.: MG012
Length: 425 cm
Width: 230 cm



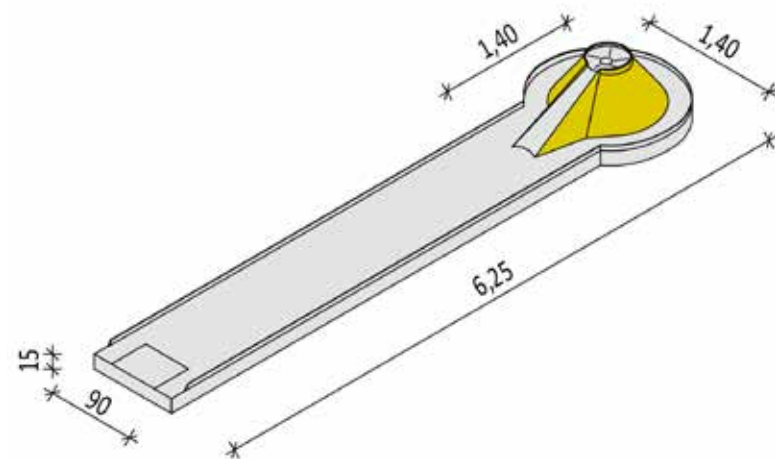
► Course 13 Tube hill

Item no.: MG013
Length: 625 cm
Width: 140 cm
Obstacle: You can select the colour for the hill from the RAL shades, Stainless steel tube



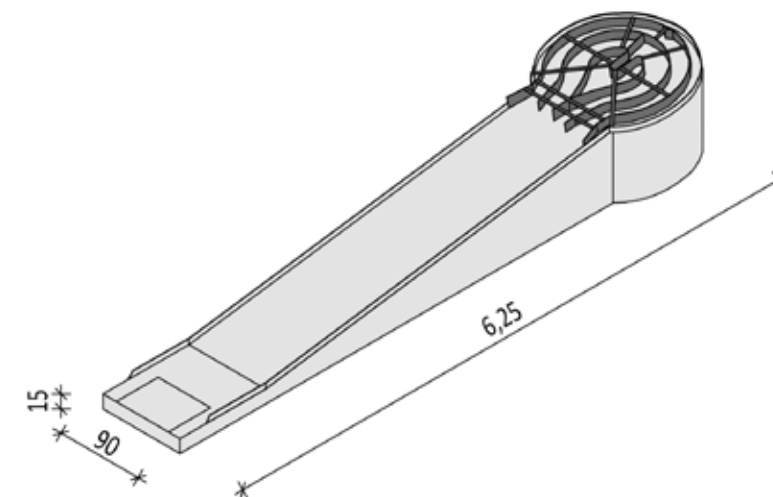
► Course 16 Straight course

Item no.: MG016
Length: 625 cm
Width: 140 cm



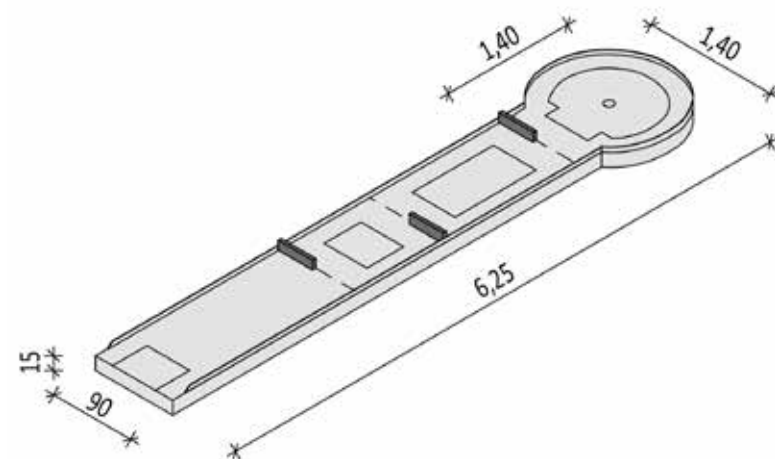
► Course 14 Volcano

Item no.: MG014
Length: 625 cm
Width: 140 cm
Obstacle: You can select the colour for the volcano from the RAL shades



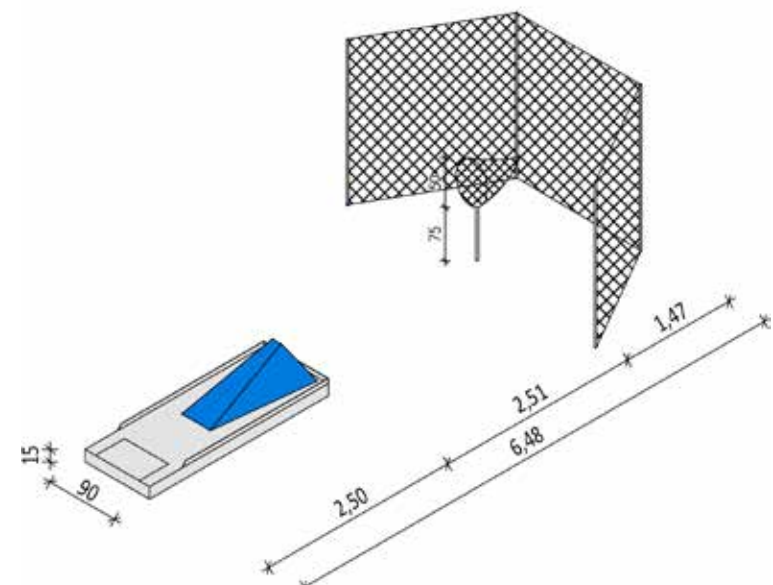
► Course 17 Labyrinth

Item no.: MG017
Length: 625 cm
Width: 140 cm
Obstacle: Stainless steel labyrinth



► Course 15 Obstacles

Item no.: MG015
Length: 625 cm
Width: 140 cm
Obstacle: Stainless steel obstacles



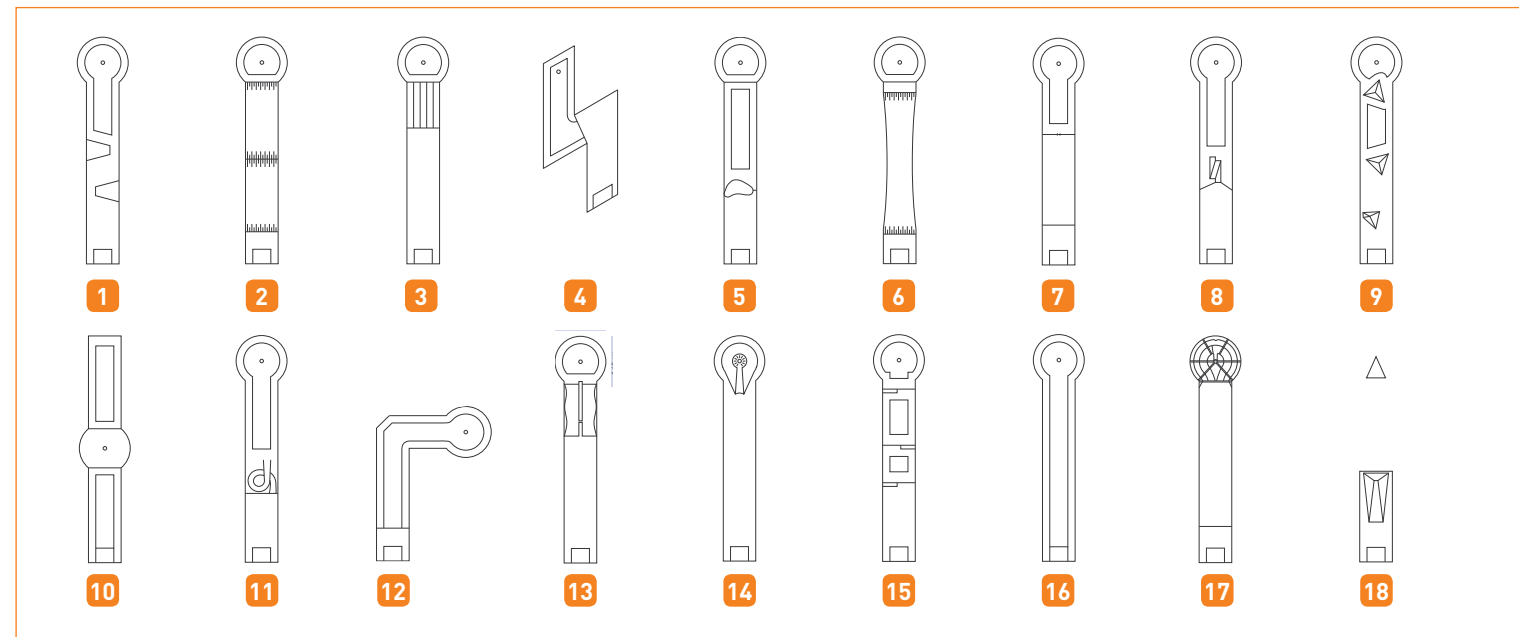
► Course 18 Jump with trap

Item no.: MG018
Length: 250 cm
Width: 90 cm
Obstacle: You can select the colour for the jump from the RAL shades



► General Product Information

Miniature Golf Units



► OVERVIEW OF POSSIBLE COURSES AND OBSTACLES

Properties and Benefits

The ideal unit in the open air has a size of around 1,500 square metres – whereas in the interior 800 square metres would already be sufficient. Our miniature golf courses consist of a two-layer and reinforced concrete and are prefabricated in one cast – incl. the coloured obstacles.

You can actually see its longevity and solidity. The players are happy about a seamless court without any differences in height, and the operator is happy about the minimum maintenance expenditure it requires, because concrete withstands also high spirits of quite some groups of juveniles. Cushions and obstacles of metal are galvanized and are just as weatherproof as the concrete. As a matter of course our miniature golf units are also suitable for wheelchair users.

Warranty

Up to 20 years: State-of-the-art production plants and lots of experience guarantee utmost quality. We therefore grant you a warranty of 10 years on all defects in material and workmanship. Subsequently we would offer you to redo your sport facility at a defined fixed price and then extend the warranty for another 10 years.

Colours and Obstacles

Obstacles are available in all standard RAL shades. That way you can adapt the courses to an already existing colouring concept, or place new accents with obstacles coloured to your choice.



Surfaces and Coating

Our Crefix coating is weatherproof, protects the surface and increases smoothness and precision for playing.

Delivery and Installation

The one-piece miniature golf courses with obstacles we supply are already coated. The truck-mounted crane simply puts the courses flat onto the pad base provided by the customer. That's about it to install the unit which can then be completed with paths. For details about the foundations please go to:

► www.concrete-rudolph.de

Maintenance and Servicing

With a separate service contract you can protect yourself also against damage caused by users: We inspect your entire facility once a year and remove all defects that have an effect on the safety and function. This inspection is documented with photos and an inspection report.



Arnulfpark | Munich

Concrete to Perfection



Concrete is a particularly versatile material. Therefore we are continuously working on the development of ever new fields of application and technical solutions, as well as on the implementation of fresh design ideas.

Construction Elements

Our Green Code ceilings can heat, cool, and optimize the room's acoustics. Core-insulated thermal walls keep the energy in the house, creating a feel-good atmosphere in combination with the components.

Manufacture

In our manufacture we produce functional design objects of glass fibre concrete, such as indoor and outdoor furniture, objects for plants, façade elements, and individually designed special products.

Sport Units

This catalogue presents almost indestructible sport units with the highest aesthetic and functional standards – quickly put up, and tailor-made for the user.

Visit Our Homepage

Our homepage contains information about our sport facilities, manufacture, and construction elements:

Current projects and events – information material for architects and planners – as well as detailed descriptions of our products and services.

Follow us on Facebook to get an insight in our corporation on a regular basis.



► www.concrete-rudolph.de



A.W.Gymnasium | Munich



Boomer Two | Neustadt



Oranienburg | Park

► City Furniture of Glass Fibre Concrete

A harmonious addition to our sport units

Manufacture

In our manufacture we produce objects of glass fibre concrete in careful handcraft: from trough planters to indoor and outdoor furniture.

Glass Fibre Concrete

Glass fibre concrete is a stable material in thin wall thicknesses already that can be produced in just about any shape. Nevertheless, concrete unmistakably remains in its typical appearance and its soft and smooth haptics. The combination of a solid material with organically flowing or filigree shapes has a fascination of its own. The objects invite you to touch them and try them out at first sight.

Urban Design

If you are looking for a suitable seat to add to your sport facility, have a look at our Urban Design product range: These urban furniture pieces of glass fibre concrete are perfectly suited to design playgrounds and public spaces. The more so as the material establishes a link to the remaining facility.

Special Designs

With us, your very own designs and ideas are in the best of hands: We are experienced in processing glass fibre concrete and are pleased to support you in designing and implementing special products.

Please visit us on Facebook and our homepage for some project examples.

For information about our manufacture please visit www.concrete-rudolph.de/manufaktur