

Klarer News

October, 2007

Newsletter from Klarer Freizeitanlagen AG

Edition 2

Looping

Developers and engineers of Klarer Freizeitanlagen AG have dedicated quite some time to the question how a loop can be implemented in a water slide, in particular so that the system to be designed also meets all safety-relevant requirements, is universal in its water park applications and provides guests with the anticipated thrill.

Many technical and physical problems had to be solved—a suitable starting height or a suitable starting angle, for instance. Or how strongly what forces come into play in the circular water design. How to provide a sufficient amount of water in the entire loop to ensure safe sliding, and much more.

With the slogan "To loop the loop", Klarer Freizeitanlagen AG has now tackled the implementation of the research and development results and designed a test system.

We are certain that the Looping system klarer will be a great **attraction among the public**.

In the future, the motto around the globe should be: Loop the loop by Klarer.



Computeranimation

Varia Wild River

The resorts of Centre Parcs Europe are famous for their comfortable and cosy holiday cottages and a diversified holiday in the Netherlands, Belgium, France and Germany. Klarer Freizeitanlagen AG has come up with something new for the Centre Parc in Port Zélande in the Netherlands, and of course for all other customers too. The new feature is a variation of the proven and popular whitewater river with **freely configurable lines** and a variety of unprecedented possibilities.

With a new system made of GRP elements, we have gained absolute freedom in the design of the river's course in accordance with the customer's requests.

Widths ranging between 1 m and 3 m and lateral heights of 0.20 m to 1.00 m do not pose a problem. Even a gradient of only 0.5% is sufficient and can be increased to 4%. Comprehensive configurations, such as benches, underwater lighting, air and water nozzles, exiting staircases, elevations and moguls, as well as other attractions make the adventure of a whitewater river almost limitless.

And, in addition, the customer is able to be directly involved in determining the shapes and colours of the elements, which are smoothly laminated.

This novel system offers planners and operators completely new possibilities for every water park.



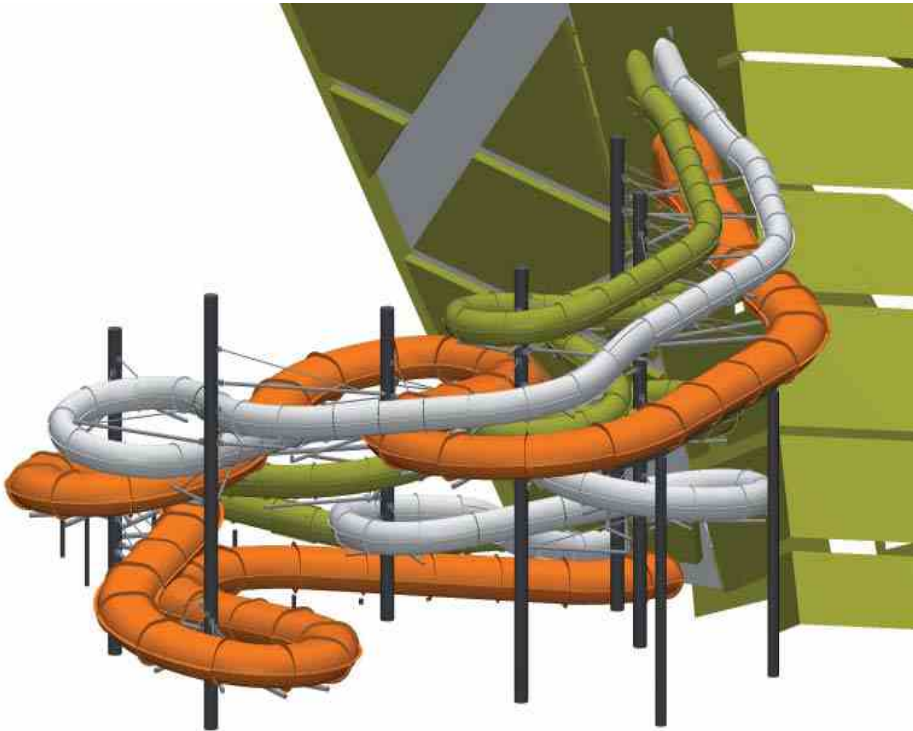
Installation Center Parcs, Port Zélande

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The architecture will be an “attraction by itself”

The new WESTside shopping and leisure centre in Bern-Brünnen



CAD-drawing Bern Brünnen

“WESTside will be a spectacular site,” says the prominent architect Daniel Libeskind concerning his planned shopping centre in Bern-Brünnen, Switzerland. According to his plans, the development will be one of the largest shopping and leisure centres in Europe and will include a wellness area.

To **make the water features more attractive**, the building owner, the Migros Aare cooperative, decided to collaborate **with Klarer Freizeitanlagen AG**. This will be a challenging task for us. The standards required for the construction of the planned water slides using the proven system klarer are high.

In addition to a 174-metre long Magic Eye®, a 162-metre long Power-Black Hole with any imaginable attractions, such as LED RGB, Starlight, Illusionscreen, TouchPoints, Running Light etc., and a 157-metre long tube slide as a “sensuous slide” will be installed. Experiencing the thrill with all senses is the theme of the sensuous slide. Seeing, hearing, smelling, tasting and feeling will be enabled and implemented through comprehensive accessories from our product range. All slides will be equipped with thermal insulation.

The centre is planned to open in October 2008.

Thermal insulation in times of climate change

Domestically and abroad, numerous regulations are in place for standardised buildings and constructions with respect to the required heat transmission coefficient K. The smaller the K-value is, the fewer thermal losses are incurred. In times of climate change and high energy prices, there is a strong trend to enact thermal insulation regulations also for non-standardised buildings and systems, which includes water slides.

Klarer Freizeitanlagen AG has already faced the new challenges and developed a thermal insulation novelty with enormous savings potential for every water park operator.

A cleverly devised system, comprising an **outer shell and waterproof insulating material** between the slide and the shell, has made it possible to lower the K-value of a tube slide from normally 5.10 W/m²K to approximately 0.49 W/m²K. In addition, the slide lined with this material **no longer features any flanges** facing to the outside, and the **exterior surface is smooth and shiny**. The removable outer shell enables easy maintenance in the relevant locations, for example for the lighting effects.



Tube Slide with outer shell and White Water River in Weil am Rhein /Germany



Magic Eye® Avesta

We used the new insulation material for the first time in our Magic Eye® water slide in the thermal water park in Avesta, Sweden. The Magic Eye® includes full thermal insulation on the lower shell. This considerably contributes to energy savings and a pleasant exterior appearance.

Family holidays with system klarer

An increasing number of operators of **children's hotels** common in Austria are interested in the system klarer water slides. Just recently, a 120-metre long tube slide was completed for the Mozart Ried Hotel in Austria.



Tube Slide Hotel Mozart Ried / Austria

Hotel Neuschitzer in Trebesing, Austria, Europe's first baby and children's hotel, will be equipped with an 85-metre long tube slide and an "Ottillie" children's slide in November of this year. In this way, system klarer water slides contribute to a relaxing and adventurous family holiday for the guests of the hotel.

Children's worlds of experiences



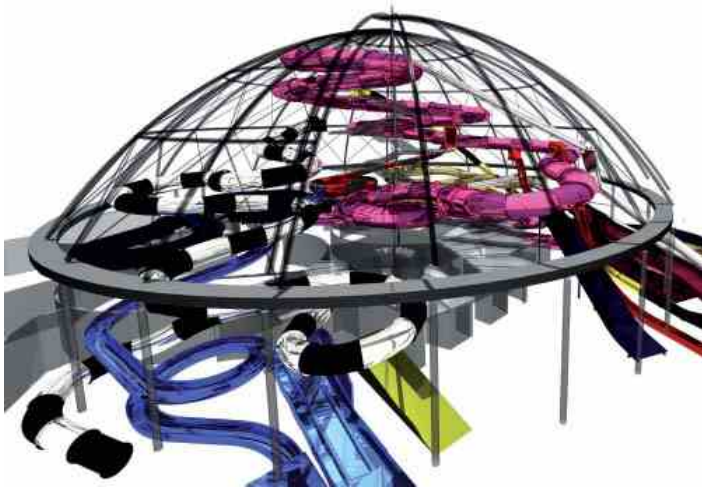
Starting the middle of 2008, the show will begin in the Gelsenkirchen fitness paradise. With the involvement of Klarer Freizeitanlagen AG, a planning team has been working on a **new water circus adventure park**. The children's play areas will be equipped with a wide variety and diversity of features, such as circus cars, clowns, tigers, flying hats, water curtains, elephants etc.

The development work in the Gelsenkirchen project and steady demand has prompted Klarer Freizeitanlagen AG to create new children's zones.

In line with this concept, in the future all children, teenagers and young families will be offered a diverse and exciting water park experience. There are practically no limits to the development of new details or to the implementation of different themes. The **new system klarer children's play zones** are governed by quality, safety and appeal.



The Erding thermal bath—a project of superlatives is implemented



The time aspect was a tremendous challenge. Despite the onset of winter and night shifts at freezing temperatures, a tight construction schedule and many an unpredicted circumstance, our **initiative and team spirit** enabled us to complete our water slides in time for the public.

Since then, thousands of guests of the park have enjoyed our slides, measuring a total of 800 metres.



The space constraints in the cupola were extreme and demanded millimetre precision in the planning and installation processes.

This project of superlatives was created in just over one year's time! In a cupola measuring 60 metres in diameter, Klarer Freizeitanlagen AG, in collaboration with Josef Wiegand GmbH & Co. KG, equipped the Galaxy adventure park with attractive water slides.

The number and diversity of the systems to be installed in the cupola required utmost precision and flexibility from all parties involved, from the planning stages to implementation.



Klarer Freizeitanlagen AG was involved in the planning, production and installation of the

- Magic Eye® measuring 300 metres in length and thus the longest indoor slide in Europe,
- a 66-metre long turbo slide,
- a 133-metre long Black Hole,
- an Abyss® funnel slide,
- a 170-metre long whitewater river,
- a High Fly jump,
- and a Triple Slide.

Company news

Effective August 2007, **Armin Klarer**, the founder, shareholder and managing director of Klarer Freizeitanlagen AG, handed over the business to his children Stefan Klarer and Claudia Wäckerlin-Klarer. They will continue to operate the company as a family business.

The new corporate management and all employees of Klarer Freizeitanlagen AG thank Armin Klarer sincerely for his long-term and successful involvement.

Representatives Klarer Freizeitanlagen AG

AUSTRIA



Joachim Haselwanter
Innrain 87
6020 Innsbruck
Tel. +43 (0)512 583 480
Fax. +43 (0)512 583 4808
Email: klarer.AG@aon.at

DENMARK



LML Sport
Snovdrupvej 9
8340 Malling
Tel. +45 (0)86 93 39 22
Fax. +45 (0)86 93 22 25
Email: lml-sport@lml-sport.dk

SPAIN



Klinker Iberica
C/Anibal n° 35,2 2a
08400 Granollers
Tel. +34 (0)93 879 29 82
Fax. +34 (0)93 879 05 80
Email: klinker@coacb.com

Head office



Klarer Freizeitanlagen AG
Dickstrasse 4
8215 Hallau
Switzerland

Tel. +41(0)52 687 06 06
Fax. +41(0)52 687 06 00
Email: klarer@klarer.com

www.klarer.com