## The great book of swimming pools

## STEINZEUG AGROB BUCHTAL

Sim ar

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Location:	La Bourboule, France
Architect:	Japac
Completion:	2010

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## AGROB BUCHTAL - tailor-made product variety.

AGROB BUCHTAL offers concentrated competence in the field of ceramic tiles and covers all private and public areas of application with its product range.

The brand "AGROB BUCHTAL" was born in 1992 by the merger of two companies rich in tradition: Deutsche Steinzeug Cremer & Breuer AG and AGROB Wessel Servais AG. The brand name is composed of a part of the firm name AGROB Wessel Servais AG and Buchtal, the name of the ceramic factory of Deutsche Steinzeug Cremer & Breuer AG at Schwarzenfeld. Both companies can look back on a history which already started in the 18th century.

1755	1870	1878	1889	1894	1910	1911	
Establishment of a small faience (earthenware) factory at Bonn and thus laying the foundations of the later Wessel AG.	Foundation of the Sinzig factory.	Production of wall tiles (Wessel).	Foundation of the Ostara factory at Meerbusch. Among other things, production of stoneware tiles.	Production of wall and floor tiles at Meerbusch.	Merger of the Sinzig factory and Friedland AG. Among other things, production of floor tiles and mosaics.	Start of the export business of Sinzig.	
1969	1970	1972	1978	1979	1982	1992	
Market launch of Buchtal's crystalline glazes for 60 x 60 tiles.	Market launch of the KerAion large-size panel from Buchtal.	Introduction of the Finland channel (Buchtal).	First slip-resistant tile with non-slip glaze (Ostara Meerbusch).	AGROB AG takes over the majority of shares in Wessel GmbH and by this also in Servais AG (AGROB WESSEL SERVAIS AG).	Introduction of Chroma (Buchtal).	Merger of Deutsche Steinzeug and AGROB Wessel Servais.	



#### The focal points of AGROB BUCHTAL are:

- Swimming pool ceramics
- High-quality residential ceramics
- Slip-resistant solutions for functional and representative areas of application
- Colour and format systems which can be modularly combined for comprehensive room concepts
- Ceramic facade systems

Project: Location: Architect: Completion:	Thermal baths Vienna, Austria 4a Architekten, Stuttgart, Germany 2010
Completion:	2010
	,

The combination of functionality, quality and design in line with the needs of the customers is the challenge which AGROB BUCHTAL meets again and again at the product development. This results in new and innovative products just as well as individual solutions. The HT coating, the ceramic surface upgrading Protecta for unglazed porcelain stoneware tiles, orientation aids for the blind or also tiles accumulating the light and thus producing a photoluminescent effect are only a few examples for the innovations of the brand AGROB BUCHTAL.

Besides the product quality made in Germany, extensive services and professional advice are offered.

1937	1938	1943	1948	from 1948	1950	1952
Foundation of the Buchtal factory.	Introduction of the first slip-resistant tile of Ostara/Meerbusch.	Friedland AG (Sinzig) and Actien Ziegelei AG merge to form the later AGROB AG.	Start of production of unglazed split tiles for the floor at Buchtal.	Development of the export business of Buchtal.	Start of production of glazed split tiles at Buchtal.	Establishment of today's in-house planning department at Buchtal.
1995	1995/1996	1998	1999	2000	2000/2001	2004
Introduction of ceramic shower tub systems.	Introduction of Protecta and the orientation aid for the blind.	Introduction of the system Plural. Ostara becomes a part of Deutsche Steinzeug.	Commissioning of the first German porcelain stoneware plant at Sinzig.	iF Award for the series edition plural linea.	Market launch of the innovative Hydrotect coating (photocatalytic, hydrophilic coating)	Market launch of the Chroma colour spheres.
	2007 Relaunch of Plural 1, 2 and 3.	2008 red dot award for the series Bosco.	2009 red dot award for the series Reflex and Vision. Design Plus for the series Reflex. Introduction of the voussoir in the swimming pool sector and thus an innovation facilitating laying.	2010 iF Award for the series Connect, Magma, Rovere and Walk. red dot for the series Connect. Nomination for the Design Prize of the Federal Republic of Germany for the series Reflex and Vision.	2011 Nomination for the Design Prize of the Federal Republic of Germany for the series Connect, Magma, Rovere, Reflex and Walk.	



High-quality tiles of the System Plural decisively contribute to the beauty and functionality of the Neanderbad at Düsseldorf.

## A specialist of high international repute

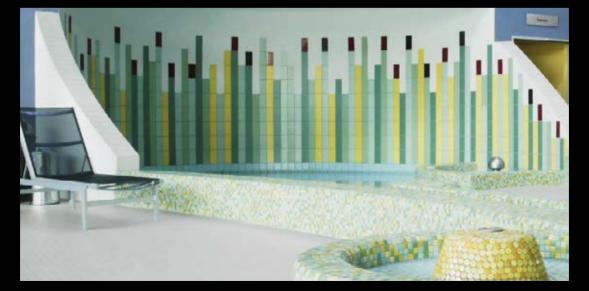
Functionally and aesthetically exemplary sports and leisure pools in more than 100 countries of the world prove AGROB BUCHTAL's position as leading specialist in swimming pool construction. High-quality tiles in an immense variety of colours and formats, which can be supplied also at a later stage after several years, sophisticated special pieces and the unique know-how from almost five decades form the basis of architecturally convincing comprehensive solutions which were awarded renowned prizes.

AGROB BUCHTAL demonstrates its decisive strength as a company supplying innovative systems and problem solutions which offers all components for indoor and outdoor areas from one source on the basis of extensive concepts and meets even the most complex special requirements by project-specific individual productions. The company sets standards with tiles with high slip resistance and the patented Hydrotect coating for easy cleaning and perfect hygiene.



The design of the bench in the Ocean Wave at Norddeich is based on conic cuts. It is impressive because of its high technical quality.

The enormous colour and format variety of the tiles of AGROB BUCHTAL is an inspiration for creative designs – as shown here in the Oskar-Frech-Seebad at Schorndorf.



### In-house planning department





Project: Location: Architect: Completion: Beginners' pool Wilhelmsdorf, Germany Gross Architekten 2008

Project: Location: Architect: Completion: De Waterperels Lier, Belgium Artabel Engineering B.V.B.A., Leuven, Belgium 2006





### Competent service for more creative freedom

Planners and architects who want to concentrate on the development of future-oriented concepts without being burdened by the inevitable routine tasks take advantage of AGROB BUCHTAL's inhouse planning department: a committed team of qualified technicians, engineers, architects, designers and colour experts ensures that convincing ideas are perfectly realized.

And as this team supports approximately 600 projects with 850 pools world-wide every year, an expert knowledge is available there which is highly appreciated also by prominent builders. No matter whether the subject is questions concerning building chemistry or laying plans, which are particularly important above all in swimming pool construction, determinations of quantities, texts for bidding purposes or advice regarding application techniques on location – we take care of all tasks that might burden our customers' creativity.

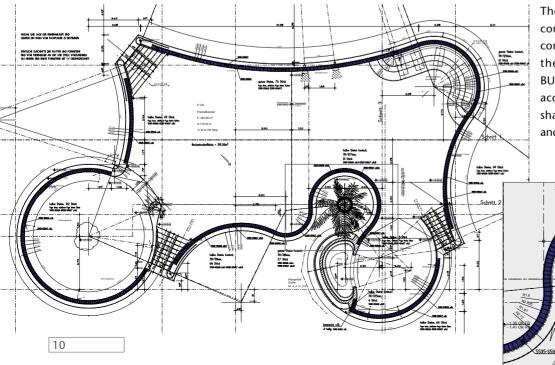
Pool edge system "Bamberg"



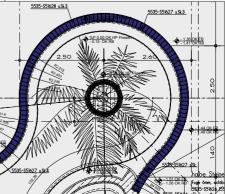
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At the development of innovative ideas in the field of swimming pool planning, the pbr Planungsbüro Rohling AG has been extensively supported by AGROB BUCHTAL. Thanks to this co-operation, energy-efficient pool edge systems could be developed and tested with very good results. Both systems – the "Bamberg Channel" as new pool edge special piece as well as a new channel system for sports pools – are installed at the construction of the new 'Bambados' indoor swimming pool of the "Stadtwerke Bamberg". The teams of the in-house planning and the development departments were competent partners to contact at any time. They constructively advised and accompanied us from the first sketch on the paper to the finished special piece.

Carlos Moutinho, Mona Schlieker, Boris Schlörb, Caroline Siebert, pbr Planungsbüro Rohling AG



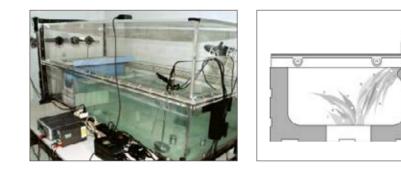
The "Bamberg Channel" offers optimal conditions for realizing creative design concepts. As the individual elements of the pool edge system from AGROB BUCHTAL are conically produced exactly according to the radius, rounded pool shapes can also be executed efficiently and technically perfect.

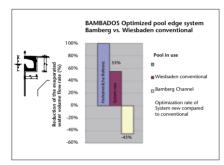


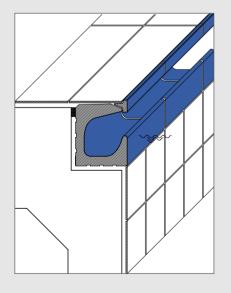
### AGROB BUCHTAL - "Bamberg Channel"\*

Scientific methods and state-of-the-art laboratory techniques (left) of the "Institut für Energie und Gebäude (IEG)" at the "Georg-Simon-Ohm-Hochschule Nürnberg" proved it: the new "Bamberg Channel" of AGROB BUCHTAL, which was developed in close co-operation with pbr Planungsbüro Rohling AG and "Stadtwerke Bamberg Bäder GmbH", decisively contributes to the energy efficiency of swimming pools. While the splash water increases the evaporation rate in the case of conventional systems (middle), the "Bamberg Channel" effects a considerable reduction (right) thanks to its sophisticated design – and thus makes an important contribution to energy saving: heat losses are reduced and the ventilation systems must circulate less air, i.e. they consume far less energy.

\* patented







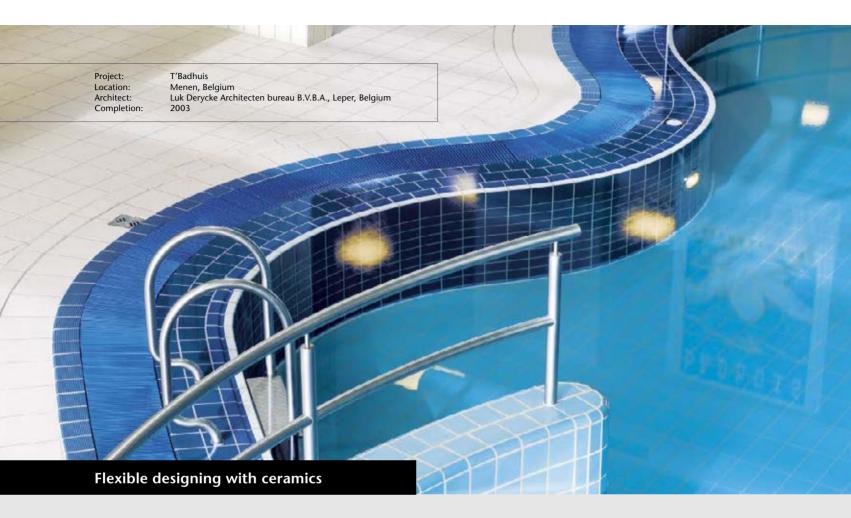
## Ecological, economical: the pool edge system "Bamberg"

Developed for Europe's first indoor swimming pool satisfying the passive house requirements, the "Bamberg Channel" reduces the water evaporation in the area of the overflow channel by 45 per cent compared to conventional systems. Scientific analyses prove the advantages of the innovative system:

- noticeably lower water consumption
- considerable decrease of the energy requirement
- less frequent ventilation due to reduced water evaporation in the pool edge area
- reduced noise level
- elegant look without cover gratings
- suitable for many types of swimming pools



#### Ideal building material: ceramics



Anyone who is building modern swimming pools which are to be convincing also in terms of architecture decides in favour of ceramics, because it is far superior to all other materials in this area of application. The almost unlimited colour range, for example, enormously facilitates the development of comprehensive, individual design concepts. Various pool edge systems, also with silent outlet valve, are available for all types of swimming pools and can be perfectly completed by matching accessories such as e.g. cover gratings.

Special pieces and solutions for benches, stairs, standing steps, ladder recesses, letter tiles and shower tubs support a conclusive and homogeneous design. Swimming lanes, safety and field markings made of ceramics can be durably integrated without any problems.

Last but not least, tiles offer maximum freedom at the planning of the pool shape without a costly and time-consuming special production. They are absolutely hygienic, ecologically harmless, long-lived and light-fast also in case of exposure to extreme solar radiation.

### In swimming pool construction, tiles are unbeatable

At the cladding of modern swimming pools, there is no alternative to ceramics. Even stainless special steel can not meet the elevated requirements: curves and welded joints are susceptible to corrosion. Salt, thermal and sea water but also the chloric air in indoor swimming pools attack the surface.

With regard to aesthetics, steel can not keep up with ceramics anyway: the pools convey a monotonous and tinny impression, the attractive visual and tactile surface structuring typical of ceramics is completely missing. Markings must be applied with other materials. And apart from that, metal pools are not cheaper than ceramic ones.

In wet areas, natural stone is also no alternative, because perfect hygiene requires an immense cleaning effort which often results in discolourations and erosions. And in the course of time, the slip resistance is also impaired.



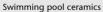


Solid channel piece from AGROB BUCHTAL: durably stable, frost-resistant and absolutely hygienic.



Channel piece with cavities: risky with regard to stability, frost resistance and hygiene. Not produced by **AGROB BUCHTAL**.







Special steel pool



## **Ecological and economical**

Environmental protection is one of the most urgent tasks of our days, and we feel obliged to contribute to it to a high degree. That is why we are coating our ceramic tiles with HT\*, which offers three special economical and ecological advantages:

- Extremely easy to clean with long-term guarantee: instead of being repelled in the form of drops, the water spreads to form a thin film which infiltrates the dirt.
- Decomposition of pollutants in the air: both indoors and outdoors. In the case of exhaust fumes produced by industry and cars, for example, 1,000 m<sup>2</sup> of facade ceramics with HT clean the air as effectively as 70 medium-sized deciduous trees.
- Antibacterial effect without chemical agents: Microorganisms such as e.g. bacteria, fungi, algae or moss are decomposed and their renewed formation is prevented.

## Test certificates and certificates

Our HT coating is baked onto the tile at high temperatures. It is exactly as wear-resistant as the surface of the corresponding tile itself. We guarantee that with our certificate. In addition, tests of renowned institutes prove the advantages of the coating.





## HT: the use



Private bathrooms

Representative rooms Catering trade

Sanitary rooms



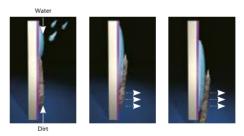


## The principle

HT is a very durable coating which ensures an improved quality of the air. Besides the effortless elimination of dirt, tiles with HT coating make malodorous and also harmful substances in the air disappear. These pollutants are caused e.g. by cigarette smoke, ammonia, residues of sprays, formaldehyde from textiles, etc.

In conjunction with light and air humidity, the HT coating effects the transformation of noxious molecules e.g. in harmless carbon dioxide and water. This principle of action is comparable with that of the photosynthesis. Titanium dioxide  $(TiO_2)$  is baked onto the glaze as catalyst at high temperature and effects a reaction between light, oxygen and air humidity. The effects are permanently conserved, as they are always reactivated by light. Titanium dioxide is non-toxic as well as free of irritating substances and may even be added to food.

#### No chance for dirt, oil and grease



With HT, dirt is washed down by the water and can then be easily wiped off.

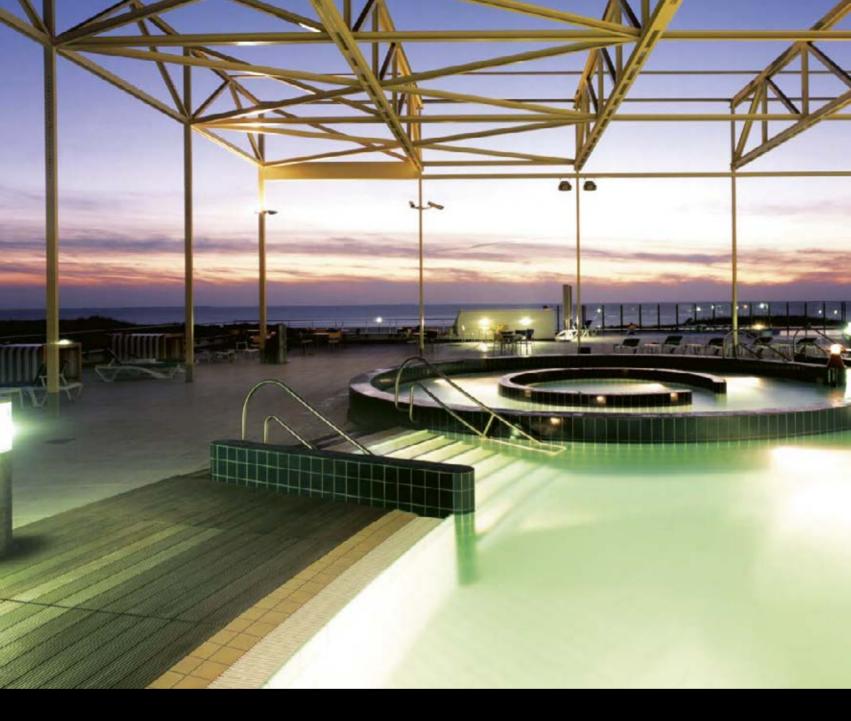
\* The photocatalytic, hydrophilic coating of the tiles of AGROB BUCHTAL has proved itself in swimming pool construction for many years.



Medical areas

Swimming pools and wellness areas

Facades



## Leisure and adventure pools

Sport, relaxation and fun for the entire family: modern leisure and adventure pools have to meet many requirements. Their architectural appearance should reflect this variety of functions and at the same time create an inviting, distinctive atmosphere.

For realizing this, the ceramic systems of AGROB BUCHTAL with their modular structure offer an immense spectrum of design possibilities. And with special pieces or individual special solutions, attractive "extras" such as jet stream canals, underwater ledges, whirlpools or relaxation zones can also be perfectly executed from the functional, aesthetic and technical point of view. At the same time, the high-quality tiles made in Germany are easy to keep clean thanks to the Hydrotect coating and ensure an effective protection against accidents in the non-slip versions.



#### Leisure and adventure pools



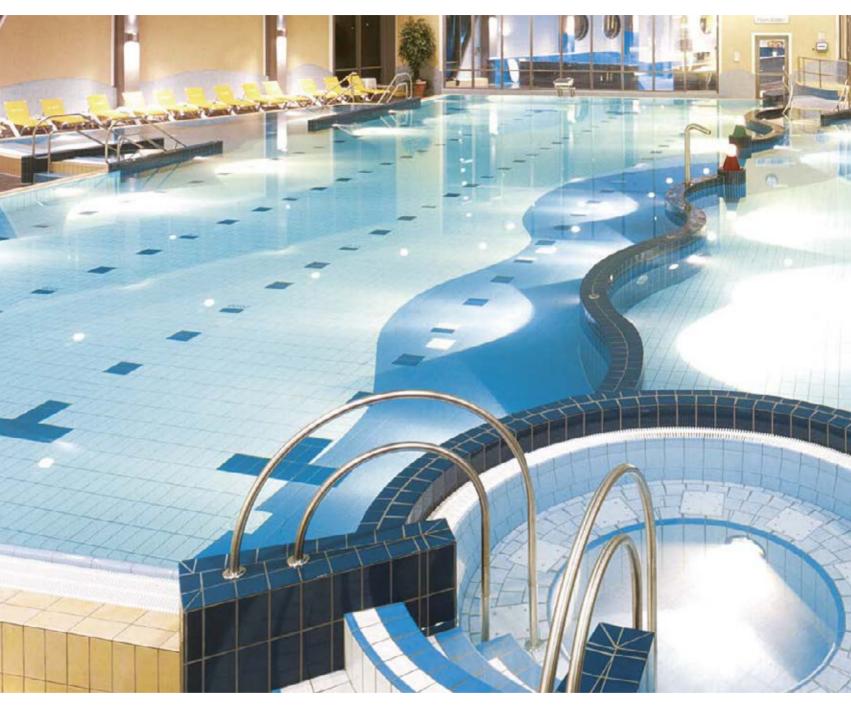
Project: Location: Architect: Completion: Gezeitenland Borkum, Germany de witt janßen partner 2006



plural plus 2. Chroma II - Chr



## BEUTSCHE AGROB BUCHTAL



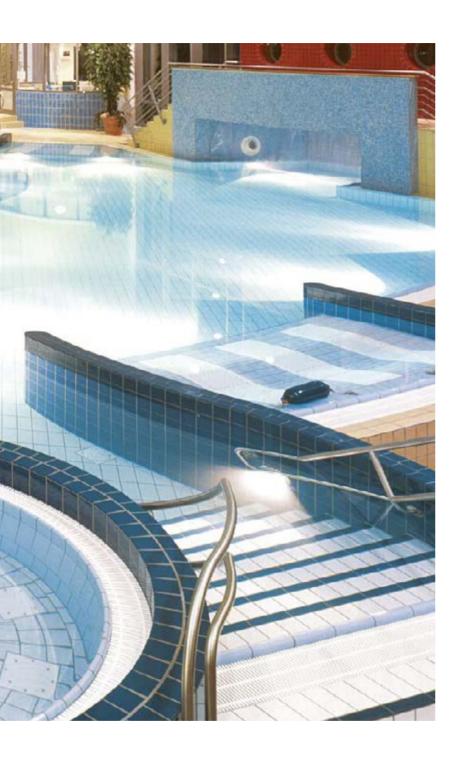
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AGROB BUCHTAL enlarges the planner's design scope by continuous further developments. Innovative products such as e.g. the "Hydrotect" surface coating have proved themselves in swimming pool construction and have become a fixed component at our planning. AGROB BUCHTAL offers an excellent in-house planning department and reliably accompanies even the most complex projects – from the draft to the completion.

Udo Janßen, de witt janßen partner

Leisure and adventure pools





# Anything that locals and visitors desire ...

After its fundamental rebuilding and timeconsuming modernization, the "Gezeitenland" on the beach of the North Sea island Borkum was reopened as an attractive bathing complex offering varied possibilities. From the sports pool with starting blocks and adjoining relaxation bay to an adventure pool with jacuzzi ledges and geysers and on to the "water garden" for children, anything is available that locals and visitors desire.

During the construction period of 20 months, the planning team was continuously supported by the in-house planning department of AGROB BUCHTAL. Tiles of the system Chroma, partly with special glazes and conic cuts, effect the characteristic appearance.



Project: Location: Architect: Completion: Gezeitenland Borkum, Germany de witt janßen partner 2006

# Great variety stimulates tourism

After its completion in the year 2008, the De Gavers bath in the local recreation area of the same name near Geraardsbergen in Belgium has soon developed into an attraction for holiday-makers and day trippers.

The complex with its green copper roof situated at a small lake conveys the impression of a crustacean crawling out of the water and is considered as an example for sustainable, energy-saving building. Besides a six-lane 25 metre pool, the bath has paddling and adventure pools, whirlpools and an outdoor pool which can be used all the year round.



Project: Location: Architect: Completion: Gaversbad Geraardsbergen, Belgium Essa, Diest 2008



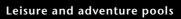






### Concept of sustainable building relying on tiles

Besides a great number of special pieces, a total of 3,000 m<sup>2</sup> of Chroma tiles in various colours and formats were laid in the interior of the swimming bath – absolutely in line with the planners' intention of using durable building materials with low maintenance costs. An interesting detail is the diving platform covered with ceramics, which at the same time serves as access to the water slide. Another contribution to sustainable building is the movable floor of the learners' pool: it can be lifted to such a height that it serves as cover during the night and thus minimizes evaporation losses.







# Water sports and fun between land and sea

With more than 350,000 guests per year, the Pir bath at Trondheim completed in 2001 is Norway's swimming facility with the most visitors. In the light-flooded hall with a total area of approximately 15,000 m<sup>2</sup>, the family, the health, the wellness and the sports pool are united under one roof. Of this total area, 10,000 m<sup>2</sup> are available for water fun and sports. The area of water alone is larger than 2,500 m<sup>2</sup>.

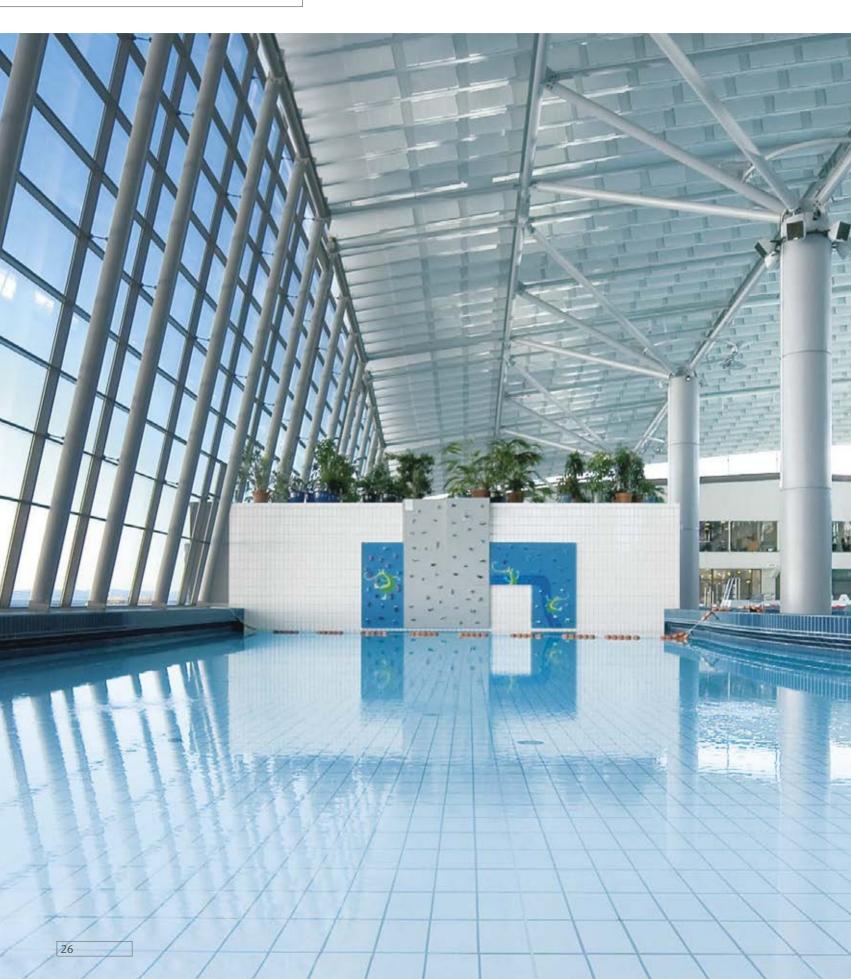
The location at the transition between land and sea at the Trondheim fjord, which is highlighted by large glass fronts, conveys a particularly attractive impression. The bath was awarded the 1st prize in the Nordic Architecture Competition and presented as exemplary in the journal "Byggekunst" (Architecture).

Project: Location: Architect: Completion: Pirbadet Trondheim, Norway Per Knudsen Arkitektkontor 2001













### Chroma colours bring the outside world into the bath

Approximately 300,000 individual tiles from the modular colour and format range of the System Chroma characterize the interior view of the generously planned public bath. Thanks to the intelligent choice of colours, the sky, the sea and the bath convey the impression of an entity with smooth transitions.

This impression is further intensified by raised pool edges and the overflow channel of the System St. Moritz lying outside, which is invisible from inside the pool. In the barefoot and wet areas, Chroma non-slip tiles ensure maximum safety. The technically and aesthetically perfect execution in all details is guaranteed by a wide range of articles from the Swimming Pool Special Programme.

WellnessParadies am Silbersee, Frielendorf, Germany







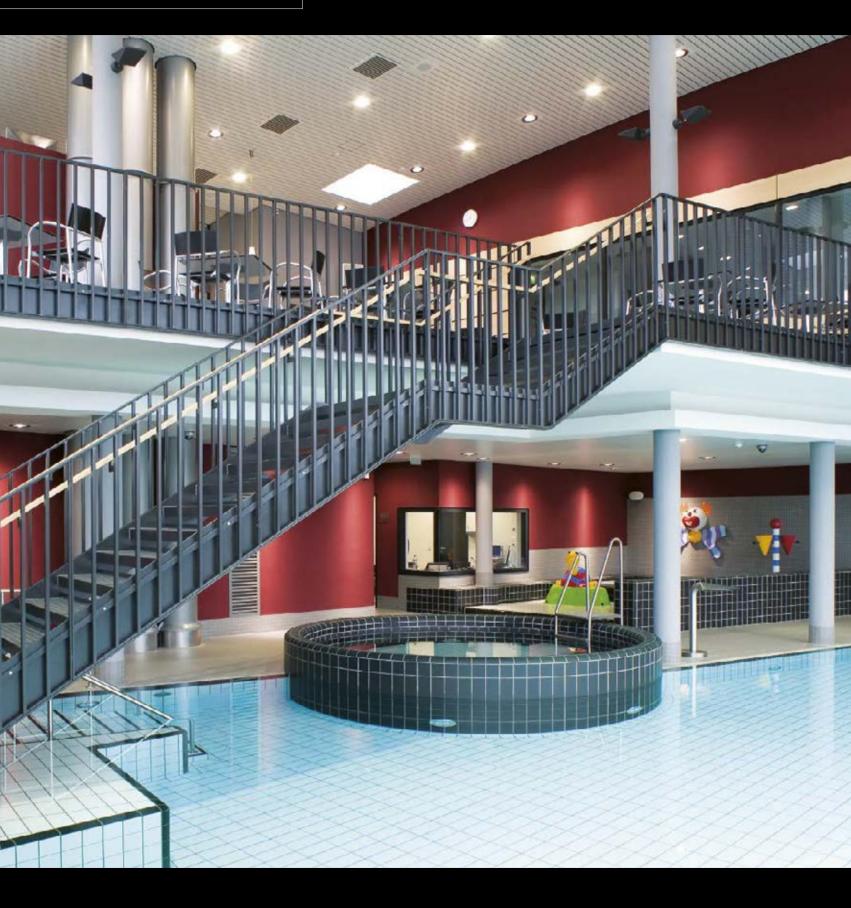
## "Low-noise channel" ensures relaxing calm

An attractive dialogue between striking and neutral shades characterizes the "Wellness-Paradies am Silbersee" at the climatic spa Frielendorf. The contrast between red walls and honey-coloured wood surfaces is absorbed by tiles in neutral white, grey and black.

A relaxing atmosphere without disturbing noises is ensured by the patented "lownoise channel" Wiesbaden Silent of AGROB BUCHTAL. In addition, the project supported by our in-house planning department, a refuge in a class of its own, benefits from the advantages of Hydrotect-coated tiles.



Project: Location: Architect: Completion: WellnessParadies am Silbersee Frielendorf, Germany Venneberg & Zech 2010 WellnessParadies am Silbersee, Frielendorf, Germany

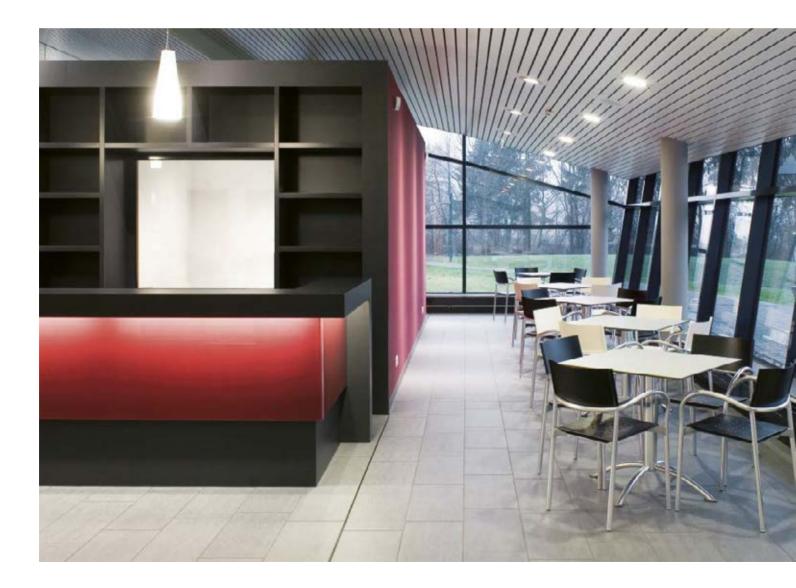


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## The right tiles for all requirements

With a wide and varied range of ceramic series matched to each other, AGROB BUCHTAL supports the realization of comprehensive architectural concepts. At the same time, even the most elevated requirements with regard to stress and slip resistance can be met. At the "Wellness-Paradies Frielendorf", not only the pools and the surrounds but also stairs and walls as well as the floor of the cafeteria were designed with tiles of the system Chroma, the series Geo and Mosaics.



# Bathing fun for the whole family and refreshing drinks at the pool bar

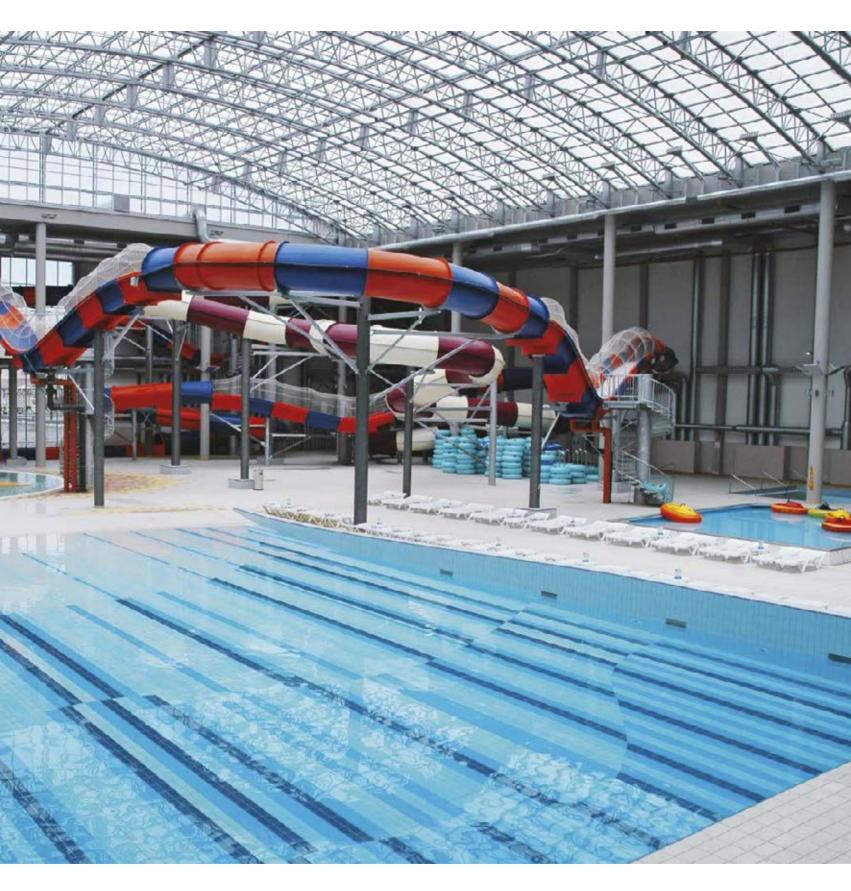
Since the end of 2009, the Water Park on the outskirts of the Ukrainian capital Kiev offers unlimited bathing fun for the whole family in a total of seven pools. The top attractions are the wave-action pool with 1.5 m high waves, a large and a small adventure pool as well as the spacious jacuzzi area. There, one also finds a bar at which cool drinks can be enjoyed without leaving the agreeable warm water of the pool.



Project: Location: Architect: Completion: Water Park Kiev, Ukraine Vladimir Timofejewich Popov, Sergey Alexandrowich Schumilin 2009









Leisure and adventure pools





# Non-slip tiles protect children while jumping around

The children's area was also generously planned. There, paddling and non-swimmer pools as well as a total of three water slides are waiting for the young visitors. At the design of the bath, which was integrated in a heavily frequented shopping centre, tiles of AGROB BUCHTAL played a central part: the proven series Quantum and Chroma II were used as well as Chroma II in the non-slip version for the wet and barefoot areas in order to prevent the risk of slipping on the pool surround.







# The bathers immerse in history

With a sophisticated theme concept which brings the town's mining history back to life again, the "Aquapark Oberhausen" holds an unassailable unique position in the highly competitive leisure market of the Ruhr area. A 17 m high winding tower surrounded by mining carts serves as eye-catcher below the gigantic glass dome. And in the paddling pool, a reproduction of "Bubi", the last pit-horse, is waiting for the young bathers.

Besides the adventure world with objects, pictures and materials from the mining sector, however, sport and fun also play an important part: on a total pool area of more than 1,600 m<sup>2</sup>, varied attractions are available to the up to 1,000 visitors – from the white-water canal to the "Kinderland".



Project: Location: Architect: Completion: Aquapark Oberhausen, Germany pos4 architektur / städtebau, Düsseldorf, Germany 2009

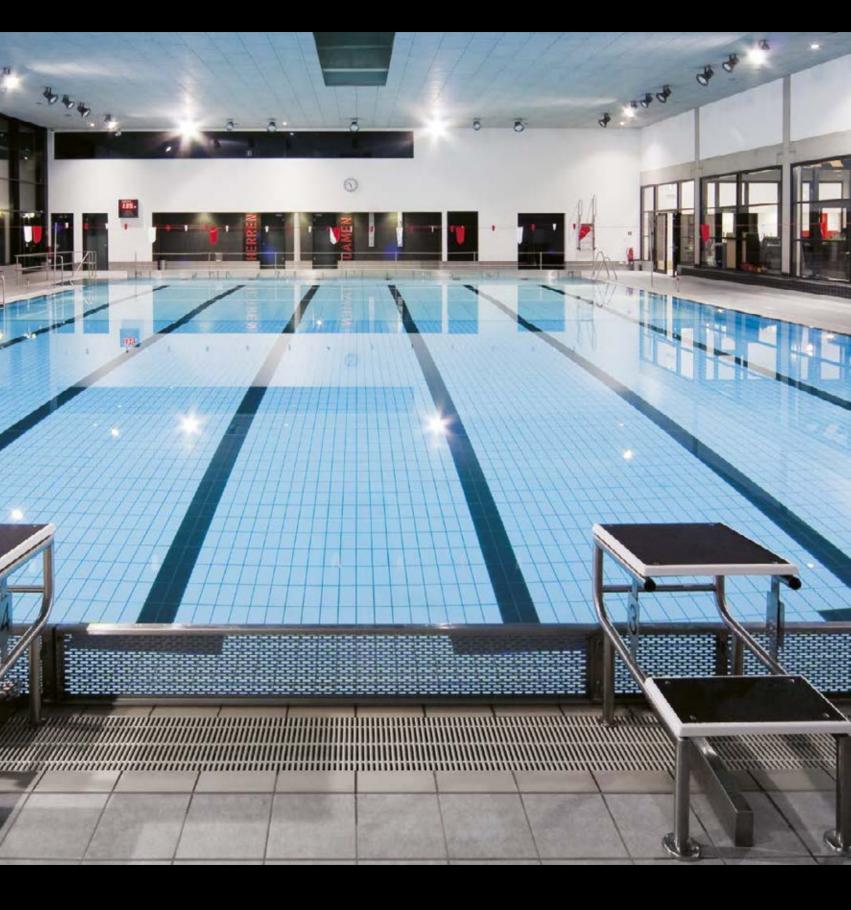
# Atmospheric parties in the fun pool cladded with black tiles

Versatility plays a key part: while clubs are doing their training in the sports pool, atmospheric pool parties are celebrated in the fit and fun pool, which is reminiscent of the "black gold" of the Ruhr area thanks to glazed black Chroma tiles of AGROB BUCHTAL. And wellness enthusiasts can indulge themselves with jacuzzi beds or massage jets.

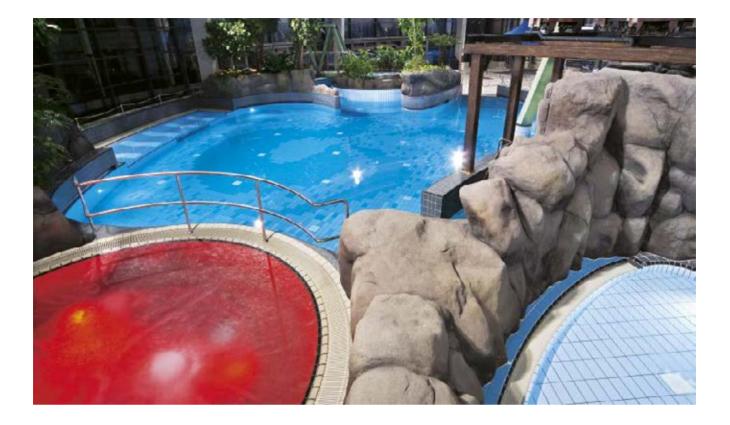


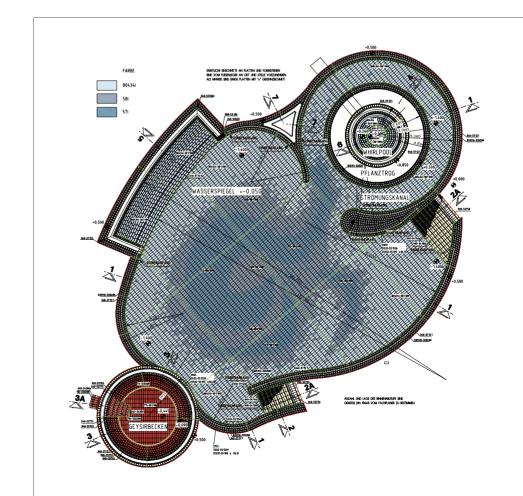






Aquapark, Oberhausen, Germany





Laying plan of the in-house planning department of AGROB BUCHTAL





#### Theme baths standing out due to numerous highlights

Over a construction period of 16 months, approximately 20 million euros were invested in the 22,000 m<sup>2</sup> large swimming bath complex. Its many highlights include Europe's longest X-Tube slide with a length of 120 m just as the outdoor pool with sandy beach, which can be reached via a reproduced mine tunnel.

The use of high-quality ceramic covering materials corresponds to the standard of this sophisticated baths. The silky-matt glazed tiles of the series Chroma II are particularly easy to clean thanks to Hydrotect, and unglazed floor tiles of the series Capestone ensure high slip resistance.



Leisure and adventure pools





# Super water fun in seven indoor and outdoor pools

Sports pools for school and club swimming, aquafitness as well as a sauna with roof garden and, as special highlight, the "Dinoland" for children which is unique in Greater Hamburg: the Festlandbad at Hamburg completed at the beginning of 2009 after a construction period of 18 months is impressive because of the varied possibilities it offers. Seven indoor and outdoor pools with a total water area of 1450 m<sup>2</sup> are available for this.



Project: Location: Architect: Completion: Festlandbad Hamburg, Germany de witt janßen partner 2009



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AGROB BUCHTAL proves to be an ideal partner at the realization of extensive projects. AGROB BUCHTAL offers varied answers to sophisticated questions. The wide range of up-to-date tile decorations and tile colours supports us to a great extent at putting our design intention into practice.

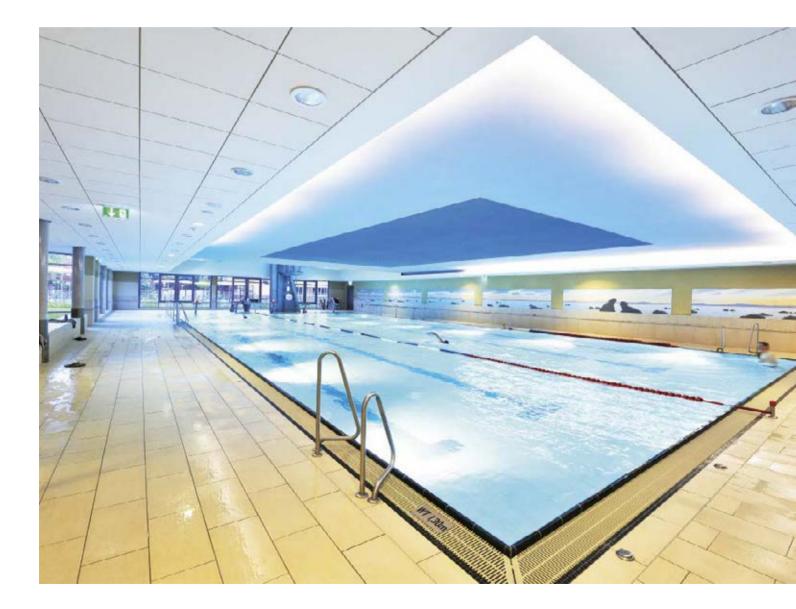
Rüdiger Wolf, de witt janßen partner

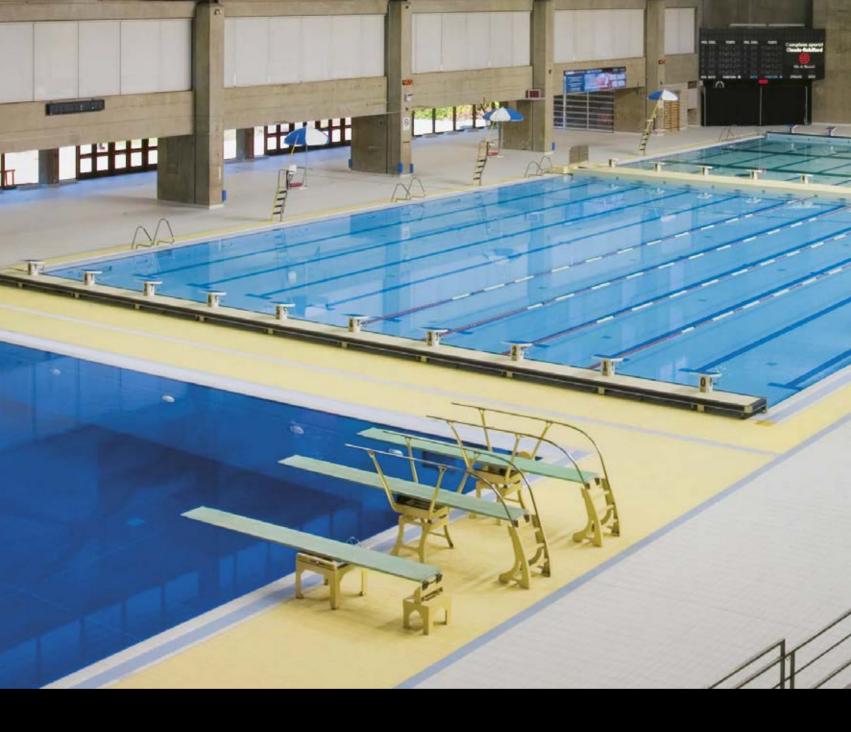




#### Sovereign design with Geo large formats

When planning the swimming pool, which plays an important part for the development of the social structures in the urban district of Altona, the architects decided in favour of an unusual concept – also at the choice of the ceramic materials. The pool surrounds, for example, were tiled in semi-bond with slip-resistant (B/R11) large-size tiles ( $30 \times 60 \text{ cm}$ ) of the series Geo in the colours anthracite and jurassic, and the pool edge system Wiesbaden in the contrasting colours black and white was matched to them. Even the pools themselves were cladded with Geo large-size tiles.





At the construction of sports pools satisfying the requirements for competitions, ceramics is the preferred material all around the globe: the by far greatest number of all world records and Olympic victories were celebrated in tiled pools. In the course of decades, AGROB BUCHTAL has built up leading competence and an excellent reputation for itself in this sophisticated sector.

Every year, the company's know-how is asked for at the planning of approximately 50 sports pools all over the world. And the static advantages which ceramics offers at the construction of deep diving pools also play a decisive economical part. Thus, a wide target group of active sportswomen and sportsmen – from the ambitious amateur up to the record holder and Olympic athlete – benefits from immense experience and high product quality made in Germany.





Project: Location: Architect: Completion: Complex Sportif Claude-Robillard Montreal, Canada Benoit Gariépy, City of Montreal 2009



plural plus 2 - Chroma II - Chroma II + Ch



### STEINZEUG AGROB BUCHTAL

Complexe Sportif Claude-Robillard, Montreal, Canada

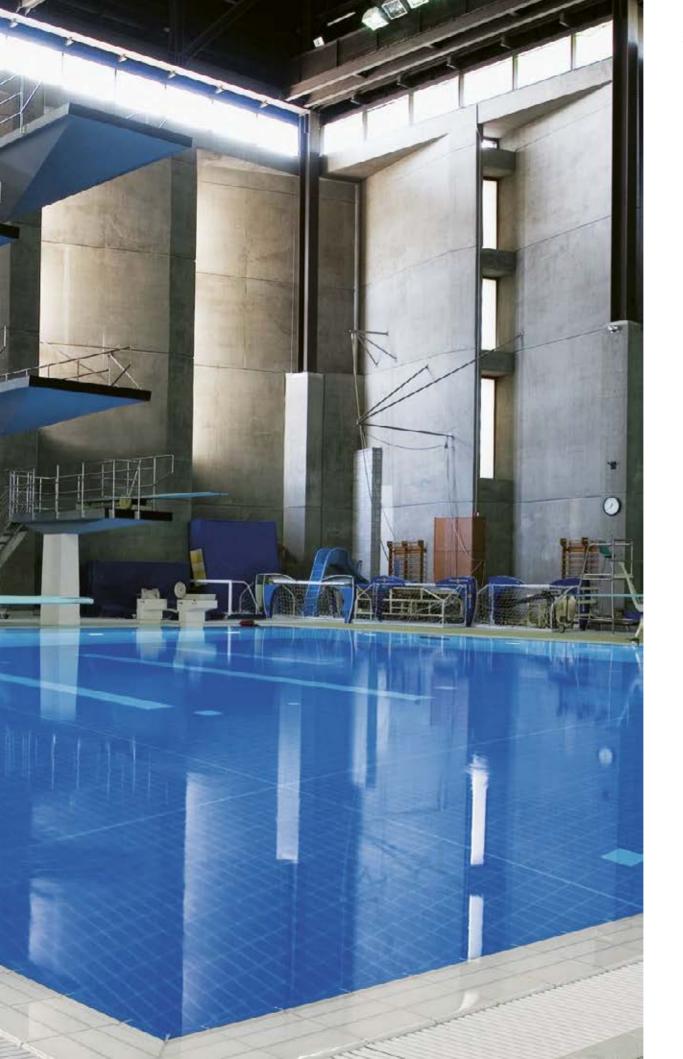
### Olympic pool gleams in new splendour

When in 1976 the Olympic swimming competitions took place in Montreal, the "Complexe Sportif Claude-Robillard" was in the public eye world-wide. 30 years later, the generously planned pool complex was extensively renovated and turned into a topmodern sports facility satisfying the highest standards with quality ceramics of AGROB BUCHTAL. The intentionally chosen contrast between ceramics in water colour and exposed concrete creates an unusual visual attractiveness.

Today, the ten-lane, 50 x 25 m large multipurpose competition pool with mobile wall and movable floor meets the requirements of the international swimming association FINA just as the diving pool under the 10 m platform, which could be realized with a depth of 5 m only with ceramics, not with steel.

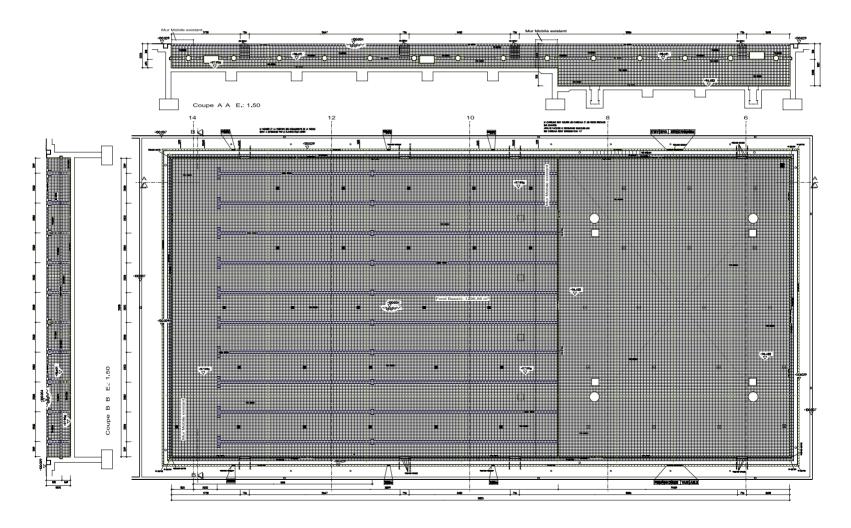
Project: Location: Architect: Completion: Complexe Sportif Claude-Robillard Montreal, Canada Benoit Gariépy, City of Montreal 2009





Complexe Sportif Claude-Robillard, Montreal, Canada

Laying plan of the in-house planning department of AGROB BUCHTAL







#### Slip-resistant and low-maintenance thanks to the System Chroma

At the choice of the ceramics, the builder attached importance above all to simple maintenance and slip resistance. Slip-resistant, Hydrotect-coated tiles of the series Chroma II non-slip were used, mainly in white and blue. Pictograms produced with water jet cuts now serve as guideposts, and both swimming pools have the proven pool edge system Finland.

In the pools and all surrounding areas, a total of 6,300 m<sup>2</sup> of tile was needed to refurbish the center. Over 200,000 kg of mortar and bonding agents were used to complete the installation.





## Exemplary modernization of the Intensive Training Centre

After its fundamental renovation, the swimming pool in the "Sportforum Hohenschönhausen" at Berlin conveys a light and friendly impression again – and it disposes of all the facilities which are expected from a Federal Sports Centre and Regional Intensive Training Centre for Swimming – inclusive of the FINA approval.

The new competition pool in the size of 50 x 21 m has a depth of 2 m in all areas. It was cladded with tiles of the series Chroma II and provided with a Finland channel. Meanwhile, the perfectly modernized sports facility is actively used again, for example by approximately 20 Berlin clubs for training.

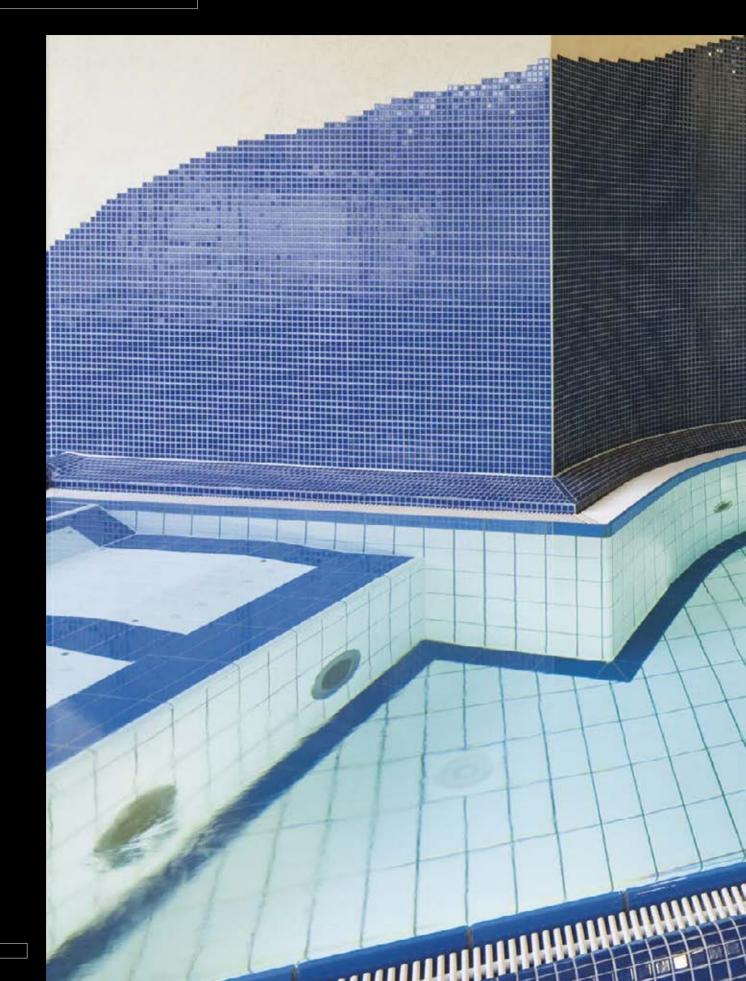


Project: Location: Architect: Completion:

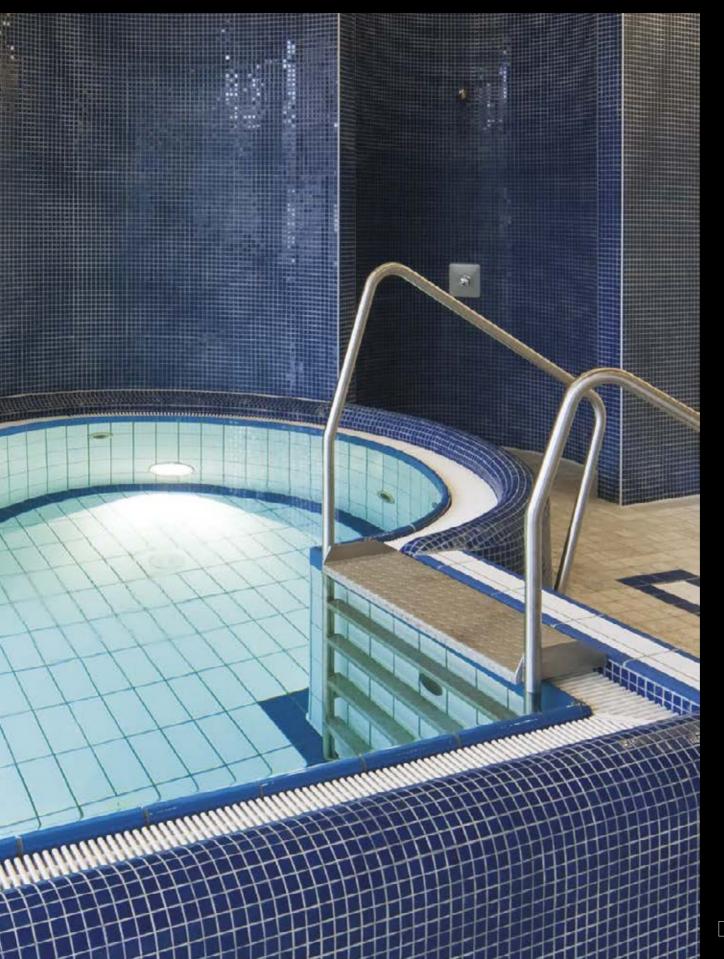
CONTRACTOR CONTRACTOR

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Sportforum Berlin, Germany Planteam Ruhr 2007



Sports pools



55

Sportforum, Berlin, Germany



### Well-directed support for top athletes

The sprint pool in which top stars like Franziska von Almsick and Britta Steffen had already been practising was also renovated with tiles of AGROB BUCHTAL. In addition, a pool with artificial current and a relaxation pool are available.

In the swimming pool, which was built in GDR times and served for improving the performances of the Olympic participants already at that time, the well-directed support of top athletes and top-class talents is also of central importance today again.

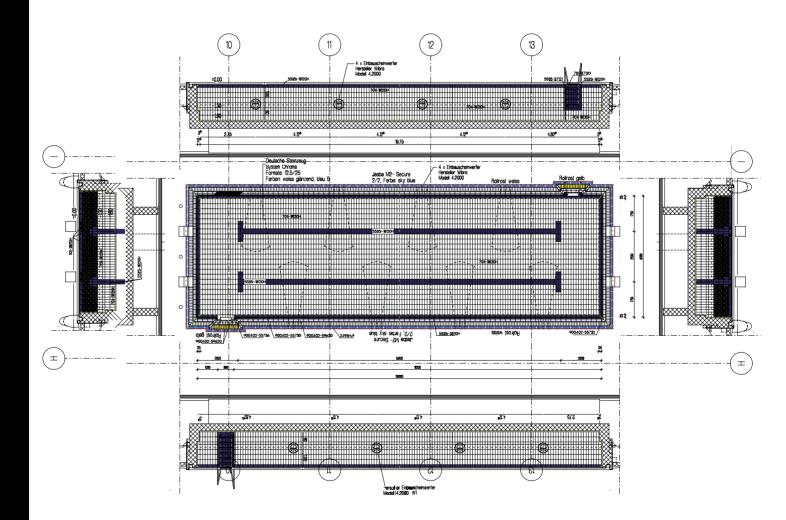
, Architecture is frozen music. (May things always be lively and harmonious in this house!)', Arthur Schopenhauer.

And to avoid any disharmonies, it is important to fall back upon a well-tuned (tone) system. In swimming pool construction, we are frequently using ceramics from AGROB BUCHTAL as it ensures a great variability within a comprehensive system at constant high quality.

Wolfgang Scheibenpflug, Reinhardt Eule, Planteam Ruhr



Laying plan of the in-house planning department of AGROB BUCHTAL



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## New competition pool for swimming athletes

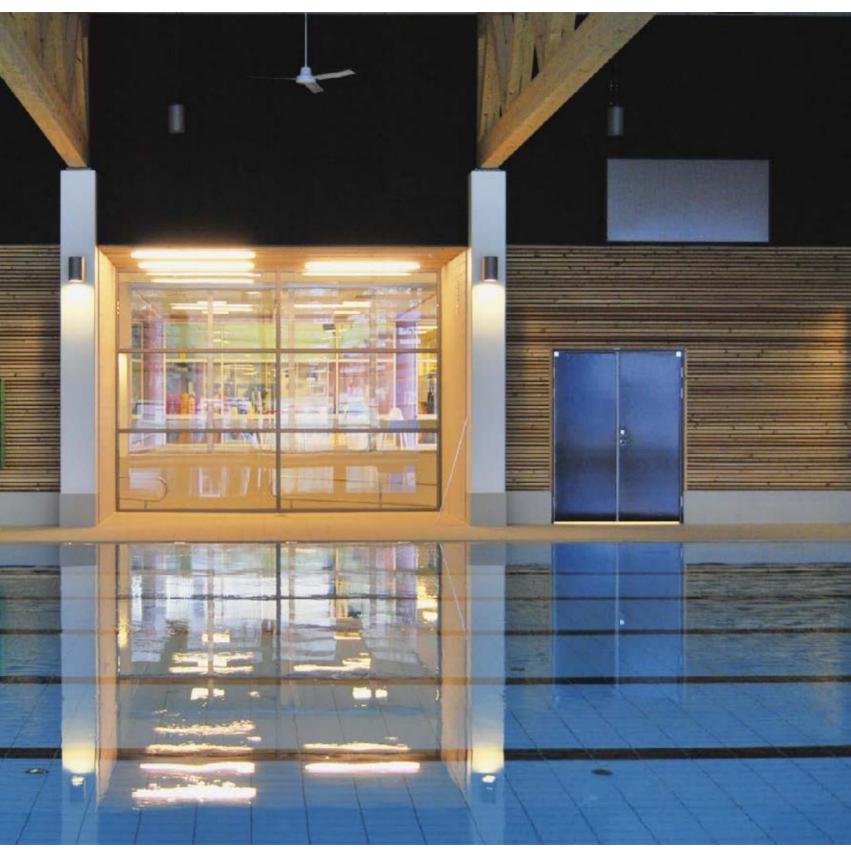
Three decades after its official opening, the Arena Skövde has been extensively renovated and enlarged in the years 2009/2010. The result is a versatile swimming centre with indoor and outdoor pools which offers numerous attractions also for families with children. In addition to the existing facilities, a new training and competition pool is available now which disposes of eight lanes with a length of 25 m and 200 seats for spectators. To ensure sustainability and low maintenance costs, the architects consistently decided in favour of Hydrotect-coated quality ceramics of AGROB BUCHTAL.



Project: Arena Skövde Location: Skövde, Sweden Architect: PP Arkitekter, Göteborg Completion: 2009









### Therapy and thermal baths

In modern thermal and therapeutic baths, a sophisticated design in terms of colours and architecture is essential for the success. Because where people have a feeling of well-being, relaxation and health result almost automatically. Safety is also a central factor for the bath operators: so, for example, the visitors must be reliably protected against risks of slipping. And physically handicapped bathers need ergonomic aids when leaving the swimming pool. With slip-resistant tiles and special pieces specifically developed for therapeutic baths, AGROB BUCHTAL supplies all components for comfortable solutions from one source. In these areas, tiles with Hydrotect coating are almost indispensable: their antibacterial effect is particularly useful in this climate of warmth and humidity which is ideal for the proliferation of microorganisms.



plural plus 2 . Chroma II - Chroma II PLAY! . Chroma II non-s/jp \_ Rove

Marino - Ou

re - Capest

#### Therapy and thermal baths



Project: Location: Architect: Completion:

PLAY - Ch

Cabrio Allwetterbad Senden, Germany Dr. Krieger Architekten + Ingenieure, Velbert 2007



### STEINZEUG AGROB BUCHTAL

Cabrio Allwetterbad, Senden, Germany





### When the sun shines, the indoor swimming pool turns into an open-air pool

Thousands of convertibles on four wheels are rolling on our streets. But indoor swimming pools with a movable roof that can be converted into open-air pools by pushing a button are rather rare. At its opening in 2007, the "Cabrio Allwetterbad" at Senden was one of the first of its type in Germany. And the small Westphalian municipality, which had attached great importance to a sustainable and energy-saving method of construction, was awarded the "european energy award" in gold.

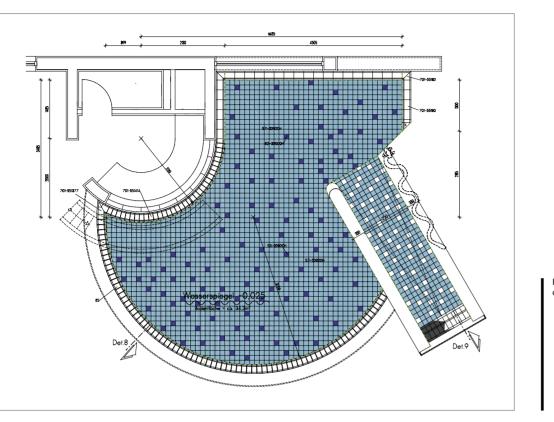
Thanks to the varied alternatives offered – from the multi-purpose pool suitable for competitions to adventure pools with jet stream canal and massage jets and on to the 32° C warm salt-water pool – both athletes and families find what they are looking for.



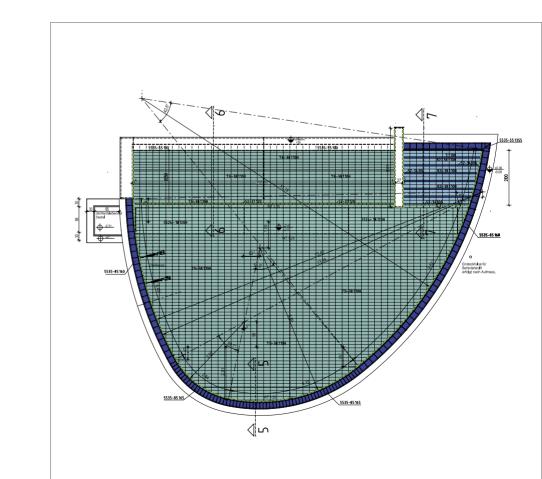
Project: Location: Architect: Completion: Cabrio Allwetterbad Senden, Germany Dr. Krieger Architekten + Ingenieure, Velbert 2007



Cabrio Allwetterbad, Senden, Germany







Laying plan of the in-house planning department of AGROB BUCHTAL





#### Sustainable building with easy-care tiles

Whether diving or beginners' pool, whether textile sauna, bubbling pool or connecting canal to the 105 m<sup>2</sup> large outdoor pool - at the construction of the bath, the planners had all visitor groups in mind. And the goal prescribed by the municipality, i.e. an energy saving of 20 per cent compared to similar baths, was achieved without any problems.

At Senden, the durable and easy-to-clean tiles of the series Chroma II also contribute to the concept of sustainability. At the laying, which was professionally accompanied by AGROB BUCHTAL's in-house planning department, the colours blue and green dominated. Thanks to the delivery of special pieces conically cut in-plant, the round pool shapes could be realized particularly easily and technically perfectly. Terraced thermal baths with sauna world, Bad Colberg, Germany



Project: Location: Architect: Completion:

Renovation of the terraced thermal baths Bad Colberg, Germany Bruno Braun Architekten, Düsseldorf 2008

## Healing warmth at bathing on three levels

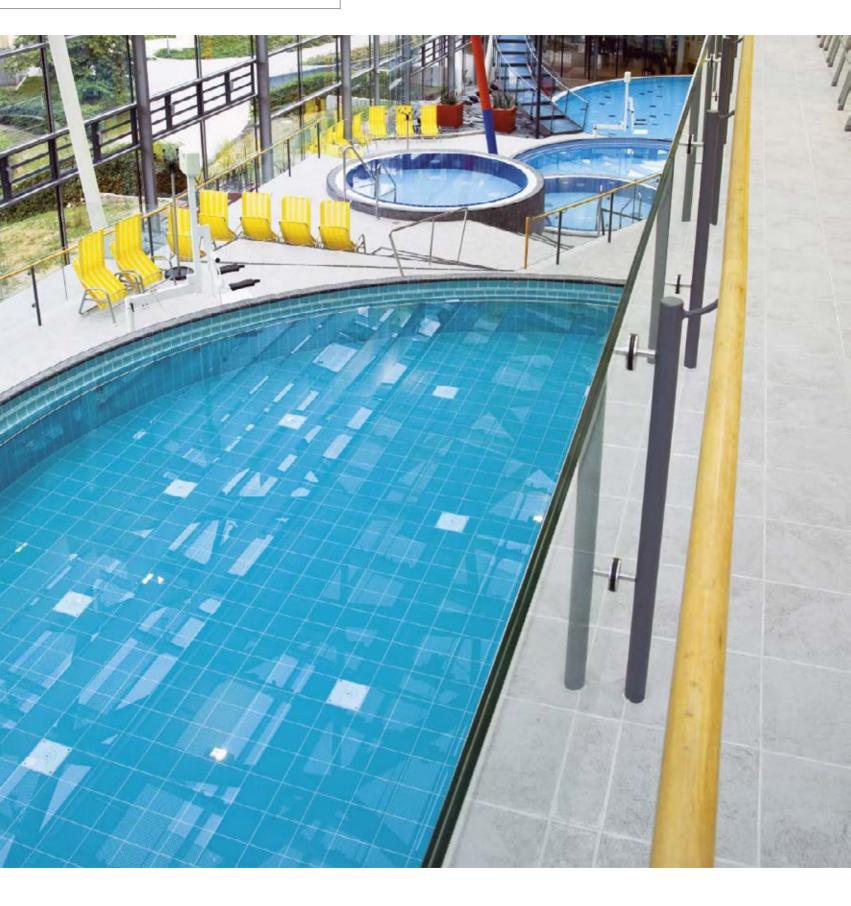
At the construction of the new rehabilitation clinic with thermal bath and sauna world, the location on a slope at the Thuringian Bad Colberg was made use of in a clever manner. This is how the terraced thermal baths was realized with a total of eleven water pools on three levels, which are connected with each other cascade-like. In 2008, the complex planned by the Stuttgart architect's office Kauffmann, Theilig & Partner was rebuilt and extensively modernized.

The transparent steel and glass facade as well as the double-shell glass roof with movable, colour-printed segments convey the impression of open-air bathing. This feeling is underlined by the choice of the tile colours: harmonious transitions between indoor and outdoor areas create an atmosphere of openness and a comfortable room climate at the same time.









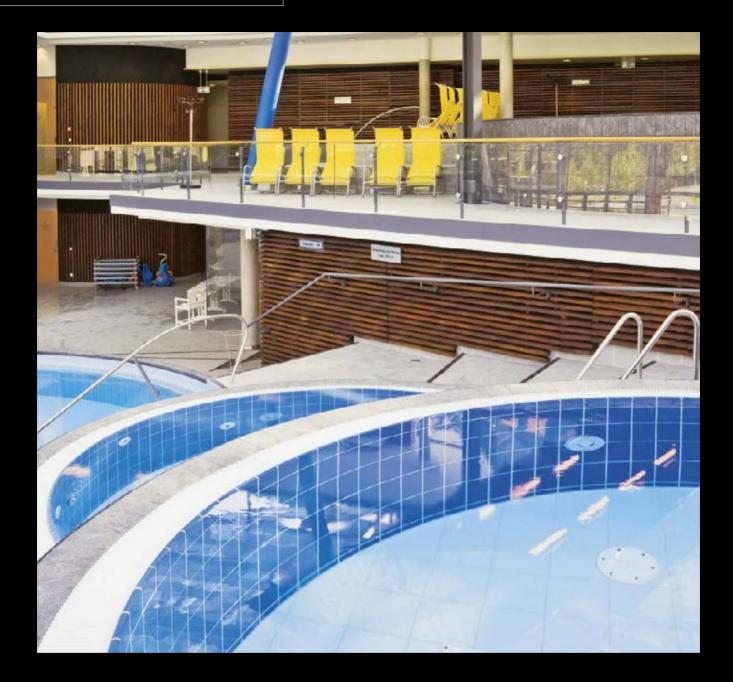


#### Hydrotect ensures perfect hygiene without effort

The round thermal pools for therapeutic exercise, partly arranged in groups of three, are supplied by three thermal springs with different temperature and mineralization. They are provided with the pool edge system Wiesbaden, offer a total water area of 650 m<sup>2</sup> and are available not only to the patients of the rehabilitation clinic for orthopaedics and internal medicine, but also to locals and holiday-makers.

At Bad Colberg, tiles with Hydrotect coating reduce the cleaning effort to a minimum. In addition, they prevent the proliferation of microorganisms and thus ensure perfect hygiene.



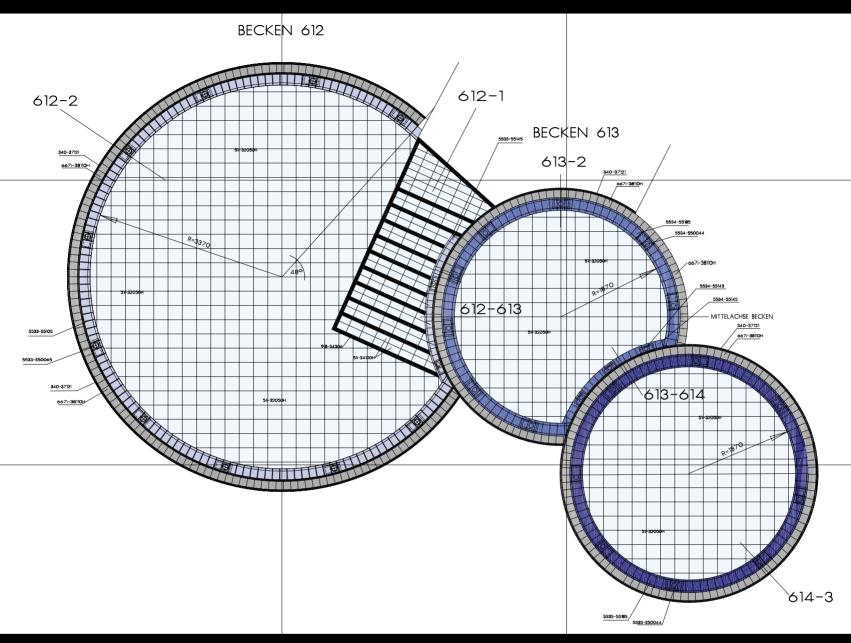


#### Ceramic special pieces that are to be found only at Bad Colberg

At the elaboration of the sophisticated laying plans, the planning team was supported by the inhouse planning department of AGROB BUCHTAL. Mainly tiles of the series Chroma II in various colours as well as Capestone floor tiles of slip-resistance class B in anthracite were used. Special pieces specifically developed for this project rounded off the harmonious overall impression.

In addition, stair tiles in green and ceramic markings in anthracite were used. The special pieces in the area of the stairs were manufactured in a project-specific special production.





Laying plan of the in-house planning department of AGROB BUCHTAL

# Elegant bathing pleasure at the old imperial city

Where already Charlemagne enjoyed bathing in warm spring water, the "Carolus Therme" offers healthful relaxation in eight indoor and outdoor pools supplied by the 38°C warm "Rosenquelle". The thermal world is completed by a steam bath, the sandy beach with sun terrace and the varied sauna area.

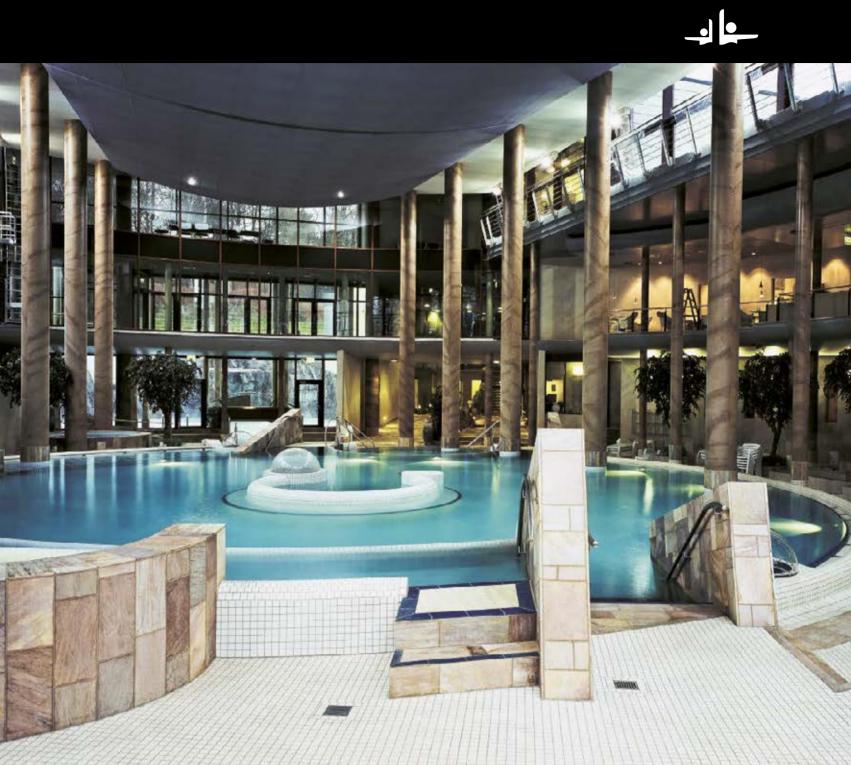
High-quality tiles of AGROB BUCHTAL underline the noble look of the representative architecture. Tiles of the system Chroma and the series Quantum in various colours and formats were used.



Project: Location: Architect: Completion: Carolus Therme Aachen, Germany Prof. Wienands, Munich 2001



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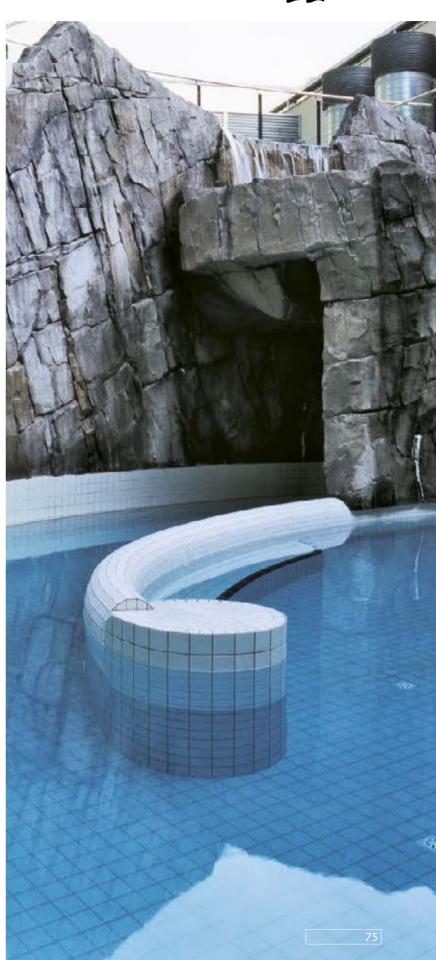




Therapy and thermal baths











# Pure relaxation with a view of the Alps

The unique location right on the shore of the Lake Constance also characterizes the architecture: through the glass panes of the swimming pool, one can enjoy the look over the lake to the Swiss Alps. Next to it, the panorama deck rises into the sky like a gigantic bow of a ship. Eight indoor and open-air pools with a water area of 3,000 m<sup>2</sup> are inviting to swimming and relaxing in the comfortably warm thermal water.

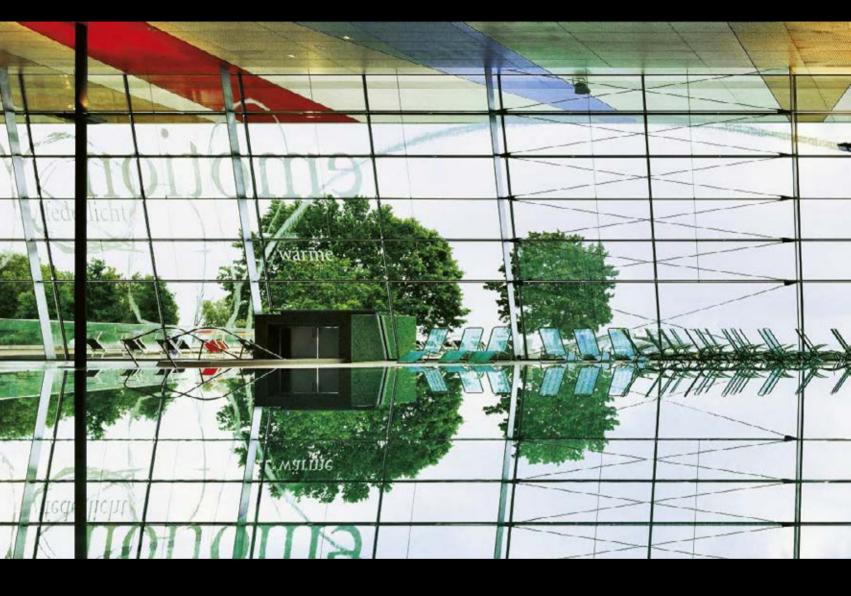
There, everything – by the way, barrierfree – is available that families, holiday-makers and people in need of a rest desire: from the sauna to adventure worlds for small children in the indoor and the outdoor area. Glass works of art and light installations lend the impressive architecture additional attractiveness.



Project: Location: Architect: Completion: Bodensee-Therme Konstanz, Germany 4a Architekten, Stuttgart 2008



Bodensee-Therme, Konstanz, Germany



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We give each of our swimming pools a quite particular, individual atmosphere. Selected, high-quality materials are of essential importance for this. At AGROB BUCHTAL, both the quality of the products and the service for architects are excellent.

Ernst Ulrich Tillmanns, 4a Architekten







### The colours of water: soft white and night-blue

The generous impression of the light-flooded swimming pool is further intensified by high-quality ceramics in white and blue shades. So, for example, tiles of the series Chroma II, partly in the non-slip version, were used for the 50 m sports pool and the non-swimmer pool inclusive of the surrounds.

The cladding of the thermal pools in the indoor and the outdoor area consists of tiles of the series Plural two in the colours soft white and night-blue. In all areas mentioned as well as at the cold and warm water pools of the sauna, special pieces from the Swimming Pool Special Programme were used.

### Lively design with colourful Chroma tiles

At the "Integration Centre for Cerebral Palsies (ICP), Munich, Germany" in Munich, children, young persons and adults suffering from cerebral palsy, an infantile damage to the brain, are receiving extensive care. For this, integrative educational facilities from the kindergarten to the school and on to the vocational training centre are available in the immediate vicinity of the day-care centre and the residential home.

One of the central therapeutic facilities is a physiotherapy practice with an own therapy pool. There, the lively ceramic wall design sets visual accents. The motif drafted by the architect, which is reminiscent of breakers, consists of Chroma tiles (10 x 10 cm) in eight different glaze colours.



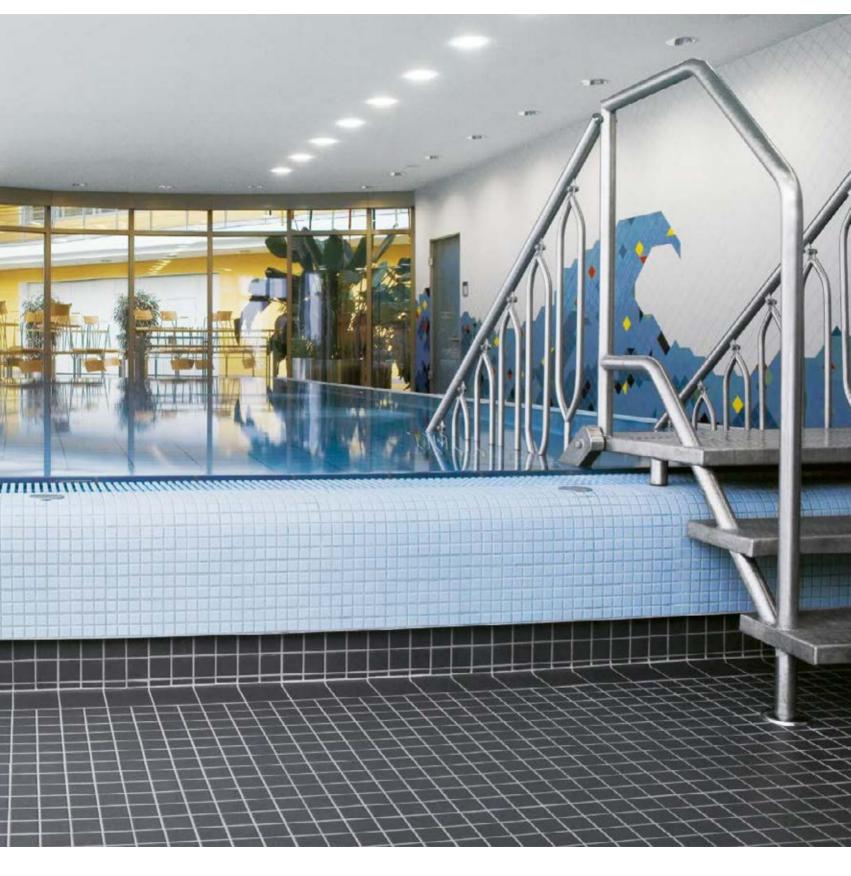
Project: Location: Architect:

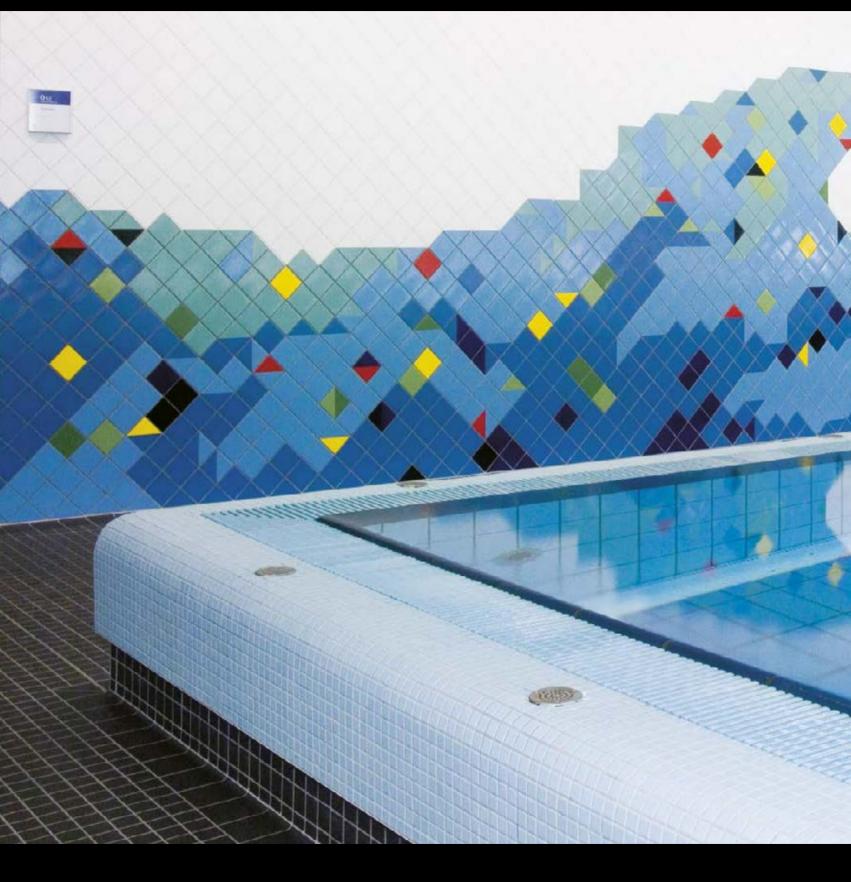
Completion:

Integration Centre for Cerebral Palsies (ICP) Munich, Germany Mann+Partner Freie Architekten und Stadtplaner BDA, Munich, Laupheim, Shanghai 2004

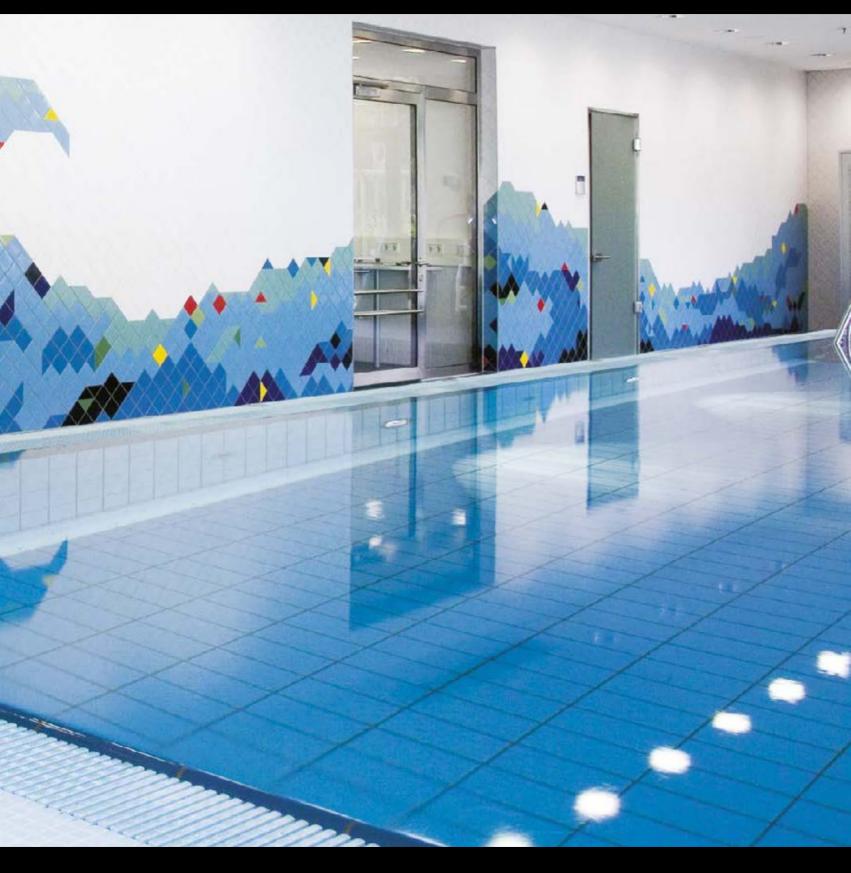












Therme Lutzmannsburg, Lutzmannsburg-Frankenau, Austria



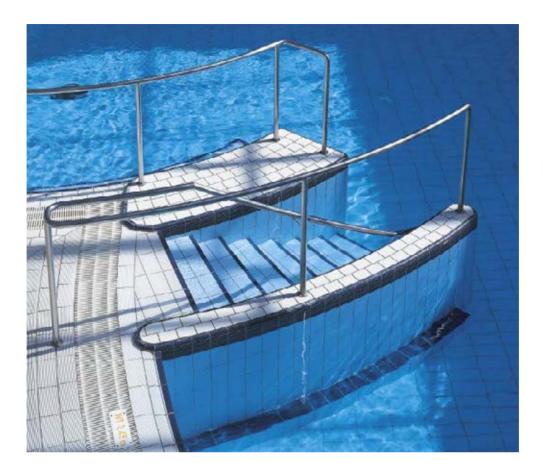


Project: Location: Architect: Completion: Therme Lutzmannsburg Lutzmannsburg-Frankenau, Austria Taschner – Kinger, Vienna 1999

# Wellness meeting place for young families

With its mild thermal water, the 1,500 m<sup>2</sup> large "Babyworld", Austria's longest water slide (202 m) and a separate sauna for children, the "Therme Lutzmannsburg" in the sun-blessed Burgenland near the Hungarian border recommends itself as an ideal wellness meeting place for young families.

While the babies can splash around in the "Baby Lagoon" or be breast-fed without being disturbed in one of the "nursing combs", the older brothers and sisters have ample opportunity for romping in the "Funny Waters". The "Silent Dome" offers the adults an oasis of rest with large indoor and outdoor pool, a massage and beauty culture area as well as a varied sauna world with outdoor whirlpool.



#### Chroma shades of blue make the water shine

The 23 m high slide tower is the attraction of the "Funny Waters" at Lutzmannsburg. The generously designed complex with a total of four water slides, a waveaction pool with grotto and waterfall as well as a diving-board bridge and a 25 m long outdoor sports pool owes its characteristic, light-flooded atmosphere to Chroma tiles in various shades of blue. Above all in the areas of stairs and pool surrounds, Chroma proves itself in the non-slip version. In addition, pool edge systems and numerous other articles from the Swimming Pool Special Programme of AGROB BUCHTAL were used at the construction of the thermal baths.









# Modern thermal bath with 2000 years of tradition

Where once Roman legionaries recovered, medieval washerwomen got warm water and the emperor Franz Joseph I. created a glamorous summer resort in the 19th century, the spectacular thermal bath of Lasko is inviting its visitors to therapies and recreation today. The architectural eye-catcher is the big, rotatable glass dome above the indoor swimming pool, which opens when the weather is fine.

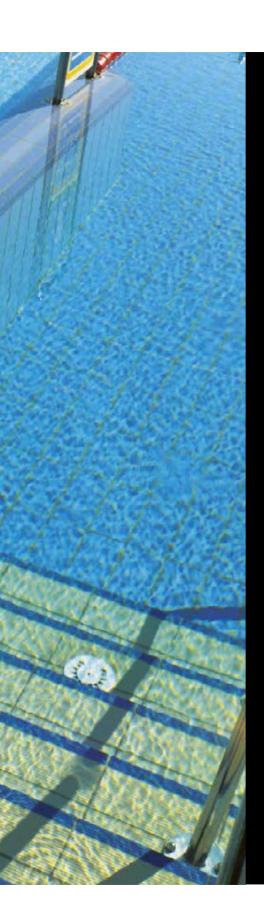
There and in the spacious open-air area, one finds a varied range of sports, waveaction, adventure and children's pools with agreeable warm thermal water rich in minerals. In addition, whirlpools, a counter current system, a water slide, a Kneipp section, a massage pool in the shape of a crystal and a generously planned sauna world are available there.



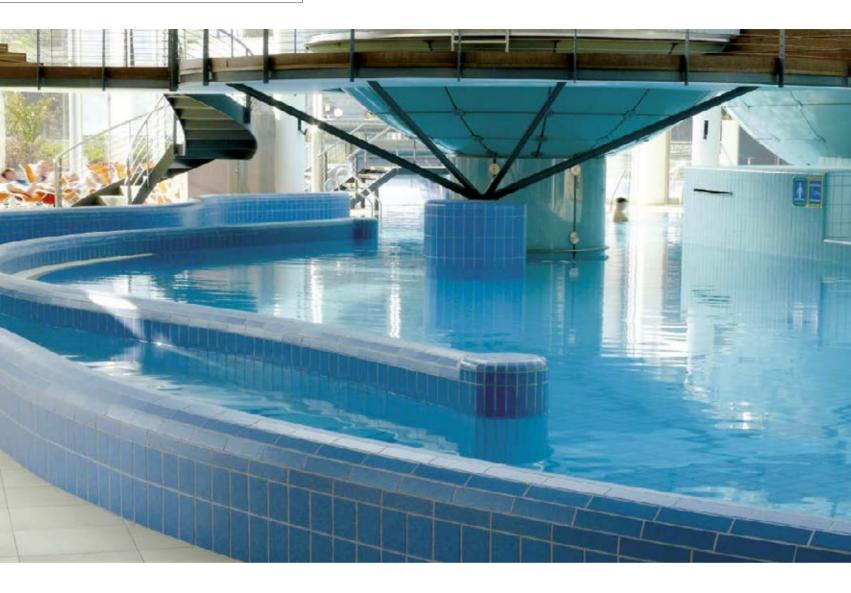
Project: Location: Architect: Completion: Therme Lasko Lasko, Slovenia Borut Rebolj 2007











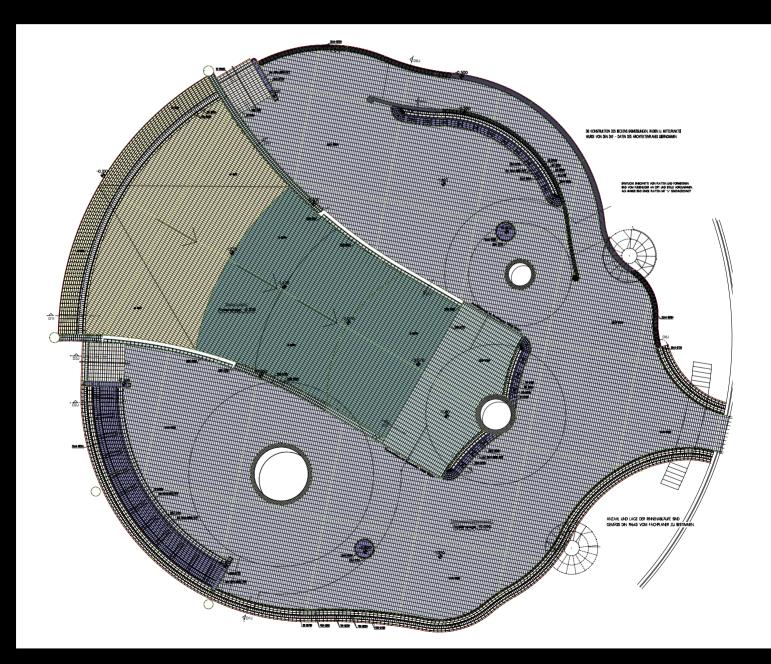
#### Quality ceramics: slip-resistant and hygienic

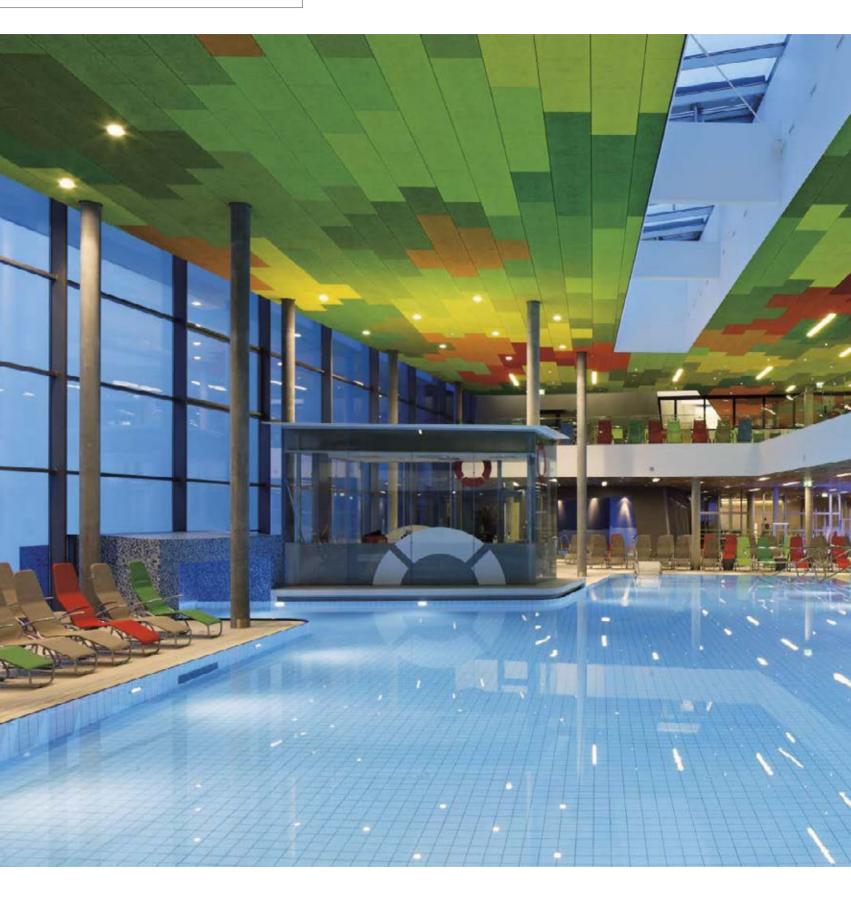
At Lasko, lasting beauty, safety, hygiene and effortless cleanliness are ensured by various tile series and swimming pool accessories of AGROB BUCHTAL. Among other things, Chroma II tiles in the colours white, blue and lavender were laid, the mosaic Centino of Jasba and the particularly slip-resistant series Diamant Grip in several colours and formats on the pool surround.

The pools were equipped with the pool edge system Finland. And outdoors, the extremely robust Natur Ambiente floor tiles underline the more rustic overall impression of the complex.



Laying plan of the in-house planning department of AGROB BUCHTAL









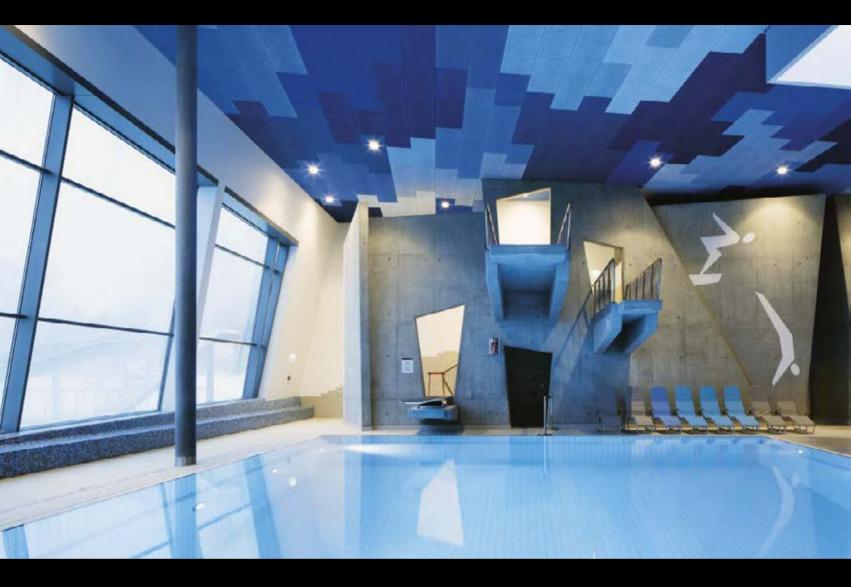


Project: Location: Architect: Completion: Therme Wien Vienna, Austria 4a Architekten, Stuttgart 2010

# Viennese wellness world fascinates with superlatives

Vienna is proud of "Europe's most modern city thermal baths" – and the pride of the metropolis on the Danube is absolutely justified: over a construction period of approximately 20 months, a wellness world characterized by superlatives was created for 115 million euros. With a gross external area of 63,000 m<sup>2</sup>, it is as big as 8 football fields.

With a ground plan adapted from the course of a stream, the "Therme" offers a varied range of attractions. There, one finds indoor and outdoor pools with a water temperature of up to  $36^{\circ}$  C and a connecting channel, "silent rooms" for relaxation, an adventure area with water playground and a 3,000 m<sup>2</sup> large sauna world. 22 pools with a total water area of 4,000 m<sup>2</sup> guarantee that every bather finds its place even if there is a great crowd of visitors.



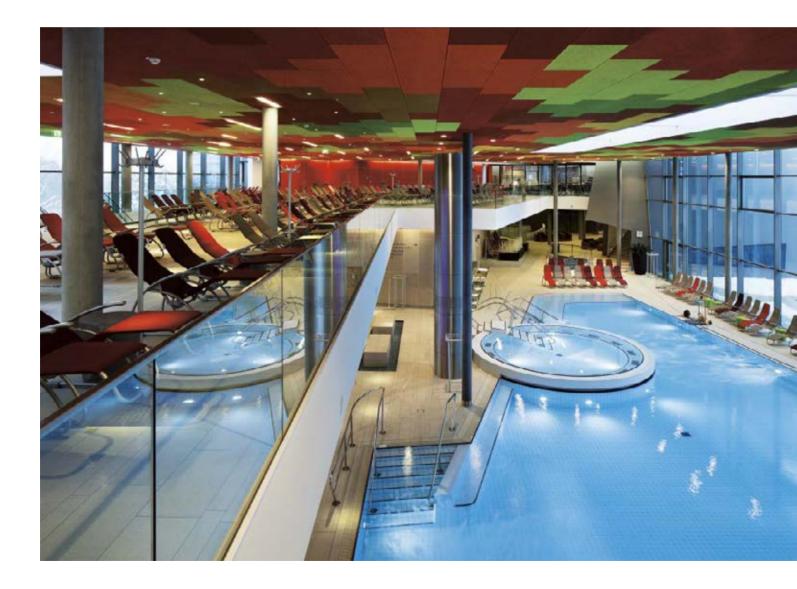




#### Exclusive and elegant down to the details

At the design of the "New Therme Wien", the architects consistently decided in favour of swimming pool ceramics of AGROB BUCHTAL: the pool walls and floors were tiled with Chroma II in various colours and formats.

All pools are provided with the pool edge system Wiesbaden as exclusive special production in black with recess, which ensures a visually perfect connection to the pool wall covering. The benches cladded with mosaics of the series Plural plus 2 and Chroma II are also convincing by their individual design: elegantly rounded front edges were realized with ceramic profiled edg-ings with a radius of 30 mm, which are also preventing injuries.





### Fitness, wellness and spa

Those who want to forget the everyday stress and do something good to their body need an appropriate environment for this. Harmonious colours and forms, soft haptics, pleasant sounds and scents improve the physical and mental feeling of well-being. High-quality wall and floor tiles of AGROB BUCHTAL are ideal for a perfect wellness ambience: their varied surfaces create an atmosphere stimulating the senses, striking signal colours correspond with discreet natural shades – and everything perfectly harmonizes with wood, glass and water.

As the slip-resistant, easy-to-clean tiles also prove themselves in the shower after the workout and in the elegant catering area, attractive perspectives open up for a comprehensive design.



Fitness, wellness and spa



Project: Location: Architect: Completion: VitaSol Therme Bad Salzuflen, Germany 4a Architekten GmbH 2009



plural plus 2. Chroma II - Chroma II PLAY! . Chroma II non-sho - Rovere - Capestone - Marino - Quantum - Ceo - plural plus 2

### STEINZEUG AGROB BUCHTAL

### Light mosaics for attractive light effects under water

With its salty,  $32^{\circ}$  C warm water coming up from a depth of 1,000 m, the "Vitasol Therme" at Bad Salzuflen is a coveted meeting place for wellness friends which find a varied bathing complex there with a water area of 1,700 m<sup>2</sup>.

After the fundamental rebuilding, organically rounded shapes, warm materials and striking colours characterize the interior of the thermal bath.

Attractive light effects in the pool are generated by the cladding with cream-white and light-white mosaic tiles of AGROB BUCHTAL. The stairs are covered with Plural tiles which were supplied as special production in the highest slip-resistance class C. Mosaics in redblack and green-black are setting colourful accents at the pool edge as well as in the glass steam and salt-water cabins.



Project: Location: Architect: Completion: Vitasol Therme Bad Salzuflen, Germany 4a Architekten Stuttgart 2009







# Soothing look: wood and ceramics in a dialogue

With their discreet lighting, the relaxation zones are inviting to recreation in a pleasant atmosphere. The wooden lamellar construction with its warm colour and the Geo largesize floor tiles of slip-resistance class R11/B with their noble, representative look, which ideally complement each other, considerably contribute to this.

The rebuilding, which resulted in more spaciousness and openness in the interior and gave the bath an unmistakable character, was accompanied by the in-house planning department of AGROB BUCHTAL. Among other things, for example, the extensive detailed estimate was drawn up on behalf of the planning architects.







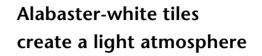


Drammensbadet, Drammen, Norway



Fitness, wellness and spa





With 5.3 million litres of water in eight indoor and outdoor pools, the Drammensbadet at Drammen opened in autumn of 2008 is the biggest bathing complex in Norway which can be used all the year round. As builder of the extensive project, the municipality of Drammen in the south of the country attached great importance to environment-friendly and functional solutions.

The eight-lane competition pool can be subdivided by means of a lock and disposes of a diving area with 1, 3 and 5 m platforms. Alabaster-white tiles of the series Quantum, which are complemented by contrasting tiles in black-anthracite, lend the 4,300 m<sup>2</sup> large swimming bath a light, friendly atmosphere.



Project: Location: Architect: Completion: Drammensbadet Drammen, Norway NUNO Arkitektur AS, Oslo, Norway 2008

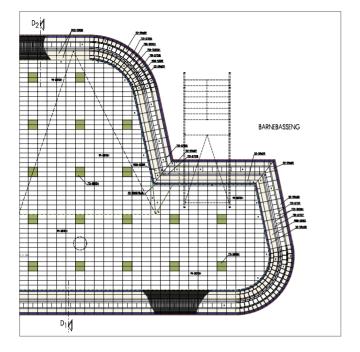




#### Swimming, wellness and sauna under one roof

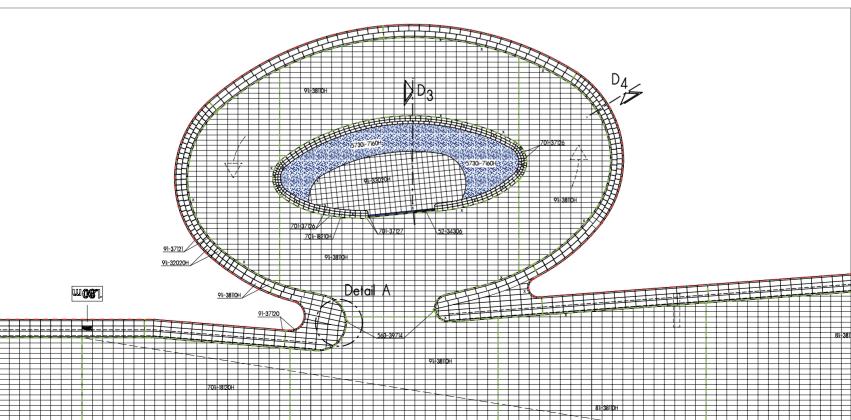
A wave-action pool with jet stream canal, whirlpool bench and climbing wall, a warm-water pool with ramp for handicapped persons, a therapy and learners' pool as well as a children's pool with small slide offer all visitors of the bath perfect water fun.

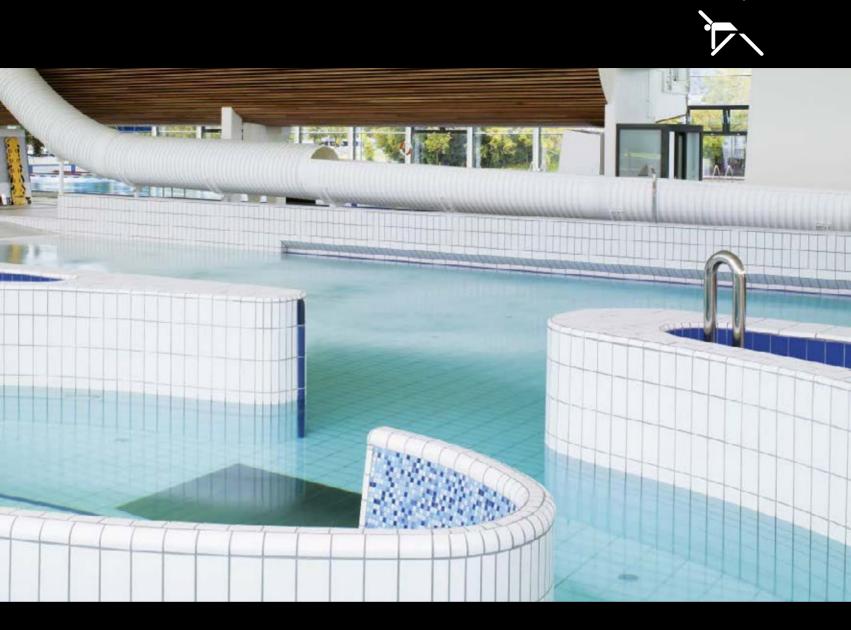
In addition, a wellness area is provided which – besides whirlpool room and bathtubs – also comprises a sauna, a solarium and a fireside lounge with seating arrangement. Drammensbadet, Drammen, Norway



Laying plan of the in-house planning department of AGROB BUCHTAL

Laying plan of the in-house planning department of AGROB BUCHTAL





#### Modern fitness training, yoga, spinning and dancing

The varied possibilities offered for swimming and water fun are completed by a modern, wellequipped gym on the third floor of the complex. There, the visitors will find weight-lifting benches, treadmills, ergometer bicycles and other training devices.

In addition, rooms were fitted out on the second floor which offer the opportunity for spinning and open areas for dancing, keep-fit exercises or yoga.

Sauna construction at the SeilerSeeBad, Iserlohn, Germany



Fitness, wellness and spa



# Perfect feeling of well-being thanks to sauna and salt-water pools

Whether sporting training or healthful relaxation: the "SeilerSeeBad" at Iserlohn with its varied alternatives offers the right solution for everyone. Besides the sports pool with diving platform, indoor and outdoor pools filled with warm natural salt water are available which are equipped with massage jets, jacuzzi beds and waterfall showers. Those who want to inhale relaxing odours can do this in the "Odorium" where heated walls generate an agreeably mild radiant heat.

And in the sauna area, a soft sauna with coloured light and gentle music as well as a steam bath with starry sky are available in addition to the classic Finnish sauna. A plunge pool with ice-cold water, a warmwater pool for the feet and a relaxation room round off the wellness programme.

Project: Location: Architect: Completion: Sauna construction at the SeilerSeeBad Iserlohn, Germany Blass Architekten, Euskirchen 2008



### Harmonious colour concept contributes to relaxation

Friendly colours carefully matched to each other make the stay at the "SeilerSeeBad" an absolutely pleasant experience. The pools, the walls and the stairs were mainly cladded with tiles of the series Plural plus 2 in the size of 15 x 15 cm. Partly, special formats and colours were used.

The perfect functionality of the sports, adventure and relaxation pools is ensured by the pool edge systems Finland and Wiesbaden.







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ASV Sports & Health Club, Cologne, Germany



Project: Location: Architect: Completion: ASV Sports & Health Club Cologne, Germany Kottmair Architekten, Cologne 2006

# Modern clubhouse offers athletes relaxation

Since the extensive renovation and enlargement of its clubhouse, the renowned "ASV Sports & Health Club" at Cologne disposes of an exclusively furnished fitness and wellness area.

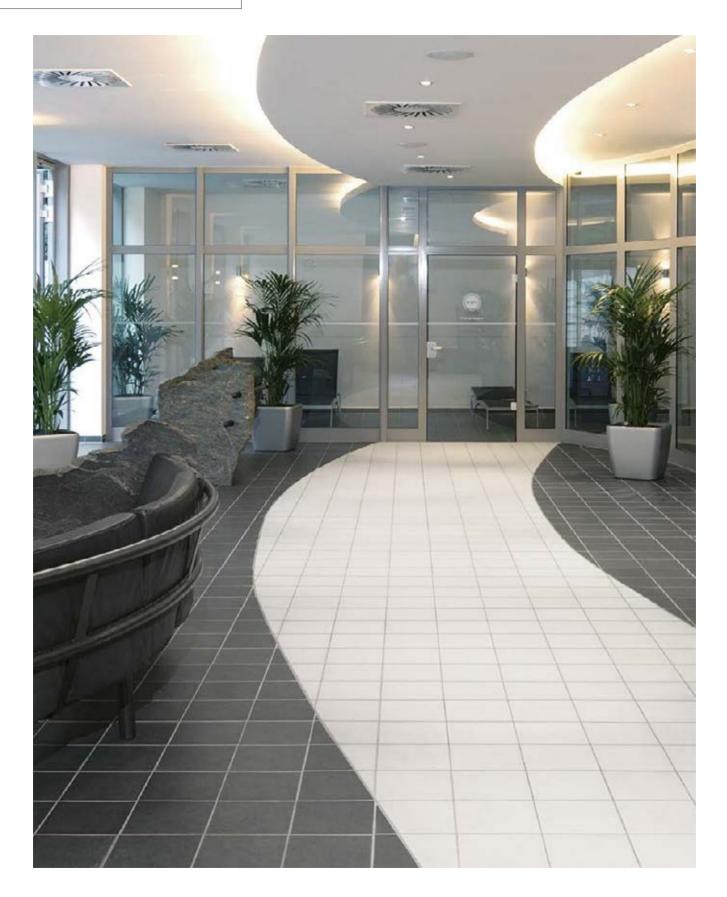
There, two modern saunas with outdoor and relaxation areas, rooms for training and courses as well as showers and changing rooms are available to the athletes. An inviting cafeteria rounds off the range.



Fitness, wellness and spa



ASV Sports & Health Club, Cologne, Germany





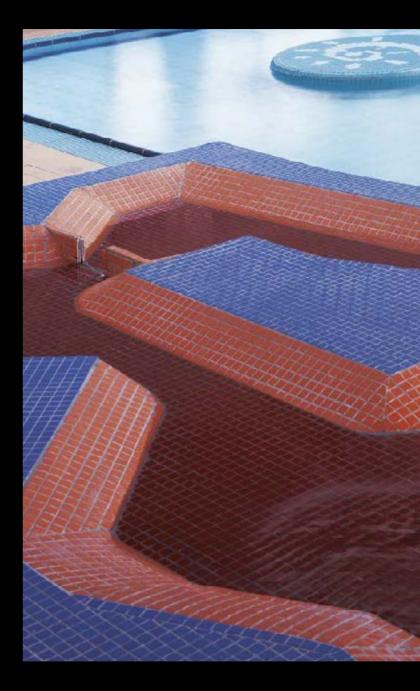
#### Exclusive ambience convincing by functionality

In a construction period of approximately nine months, a complex was created which, despite the required functionality, conveys something of the self-confidence of the successful club. High-quality, easy-care tile series of AGROB BUCHTAL considerably contributed to this.

The floors in the sauna and the relaxation areas as well as in the showers and the changing rooms were designed with square tiles in two colours. On the walls, the architect decided in favour of the series Chroma II.







#### Sport, bathing fun and wellness in the centre of the city

After its extensive renovation and enlargement, the "Südbad" at Bremen has developed into a popular leisure centre in the middle of the city. There, those interested in sport find a 25 m pool with diving platform, and those learning to swim can use the beginners' pool. All pools were provided with the "low-noise channel" Wiesbaden Silent.

For the sophisticated design in terms of colour of the pools, floors and walls, various tile series of AGROB BUCHTAL were used: besides Chroma II and Plural two, Chroma Classic is also to be found there in a wide range of blue shades.

#### Fitness, wellness and spa







Project: Süd Location: Bre Architect: Pla Completion: 200

Südbad Bremen, Germany Planteam Ruhr 2003









Project: Location: Architect: Completion:

Aqua Olsberg Olsberg, Germany GSF Planungsgesellschaft für Sport- und Freizeitbauten 2008

# Sovereign design with tiles in special formats

With two salt-water pools, a Kneipp zone, a steam bath and a rustic woodland sauna, Olsberg, one of Germany's oldest Kneipp spas, presents itself as an attractive centre for health, relaxation and fitness after its rebuilding and enlargement.

The pools were provided with the modern pool edge system Wiesbaden, and the floors and walls were designed with high-quality tile series of AGROB BUCHTAL. The series Capestone, Geo, Construct and Chroma II were used in different colours, partly in the project-specific special formats of 15 x 30, 40 x 120 and 30 x 60 cm.

#### Graduation house shows historical salt production

Besides the imaginatively designed water play garden, one of the attractions at Olsberg is the two salt-water pools (inside and outside) where the spa visitors can enjoy the feeling of being almost weightless at a water temperature of 33° C. Cold and warm water affusions enhancing the blood circulation are offered in the Kneipp zone.

A mysteriously illuminated steam bath spoils with exclusive scent compositions, and right next to it, a historical graduation house reminds us of traditional techniques of salt production. A 25 m long sports pool and the open-air swimming pool with large green areas complete the range.







### Sports, fun and wellness under one roof

Since autumn 2010, La Bourboule, the thermal and therapeutic baths rich in tradition in the heart of the Auvergne in the centre of France, disposes of an additional attraction: the new building complex "Pôle Aqualudique" in the green holiday region characterized by its impressive volcanic cones is convincing thanks to the successful combination of wood, glass and ceramics. Besides a multi-purpose sports pool with four competition lanes, the compact bath offers quite a lot of water fun and health courses for parents and children.

Thus, the jet stream canal, massage jets and the whirlpool bath together with the relaxation and wellness area, which includes, among other things, three saunas and two hammams, offer a varied range of leisure activities for the local population and holiday-makers.



Pôle Aqualudique La Bourboule, France Japac 2010













#### Ceramics in harmony with warm wood shades

Versatility is one of the strong points of the new swimming pool complex at La Bourboule. In the light, agreeable ambience, swimming lessons for babies are just as possible as happy splashing around, perinatal water gymnastics or aquabiking for adults which want to keep fit.

Approximately 2,000 m<sup>2</sup> of tiles in four different formats were laid in the interior of the building. Besides the series Chroma II, Plural plus tiles were also used. The various graded colour nuances of the ceramics correspond with the warm wood shades and underline the interplay of water and light.









## Enjoying the warmth in the old charcoal stack

Situated in the sparsely populated Swedish province of Norrland, the leisure pool of Sundsvall is designed for a large catchment area. And the varied attractions it offers make sure that even long journeys are worthwhile. The eye-catcher of the bath is the big circular pool with an island in the middle. There, a warm-water pool, massage jets and a spacious paddling pool world are available. Tropical plants are not to be found in the Himlabadet. Instead of that, the interior orientates itself towards the surrounding forest landscape. One of the highlights is a separate hot-bathing room in the style of a traditional charcoal stack.

Project: Location: Architect: Completion: Himlabadet Sundsvall, Sweden PP Arkitekter, Göteborg 2010





#### Special production for fulfilling the architects' request

At the planning of the imaginatively designed bathing complex, which offers a lot of water fun also for small children, the architects consistently paid attention to sustainability and the minimization of the maintenance costs. That is why they decided in favour of quality ceramics of AGROB BUCHTAL for the cladding of the pools, at the overflow channels, floors and many interior walls. And the Hydrotect coating ensures particularly easy cleaning, perfect hygiene and high air quality. A special request of the planners was of course also fulfilled: in the scope of a special production, dark grey, slip-resistant floor tiles were supplied to Sundsvall. In a second phase of construction, a training and competition pool is also to be realized at the Himlabadet soon.



### Hotel and private swimming pools

Hotel and private swimming pools generally have one thing in common: they should harmoniously fit in the architecture and the existing ambience. With the immense range of colours and formats which the tile programme of AGROB BUCHTAL offers, however, such individual special solutions up to curved pool shapes and comfortable whirlpools are no problem. And in big hotels, guide colours help bathers not familiar with the place to find their way.

No matter whether it is the compact swimming pool for the family or a luxurious wellness ensemble for demanding guests: AGROB BUCHTAL offers everything for turning a swimming pool into an oasis of relaxation from one source – inclusive of low-noise pool edge systems.



#### Hotel and private swimming pools



Project: Location: Architect: Private pool Jakarta, Indonesia sonybudiono Architect



### STEINZEUG AGROB BUCHTAL

Private pool, Jakarta, Indonesia





Hotel and private swimming pools





Four Seasons Hotel, Limassol, Cyprus



Project: F Location: L Architect: N

Four Seasons Hotel Limassol, Cyprus Mr. George Th. Mavrommatis Phantasialand, Brühl, Germany

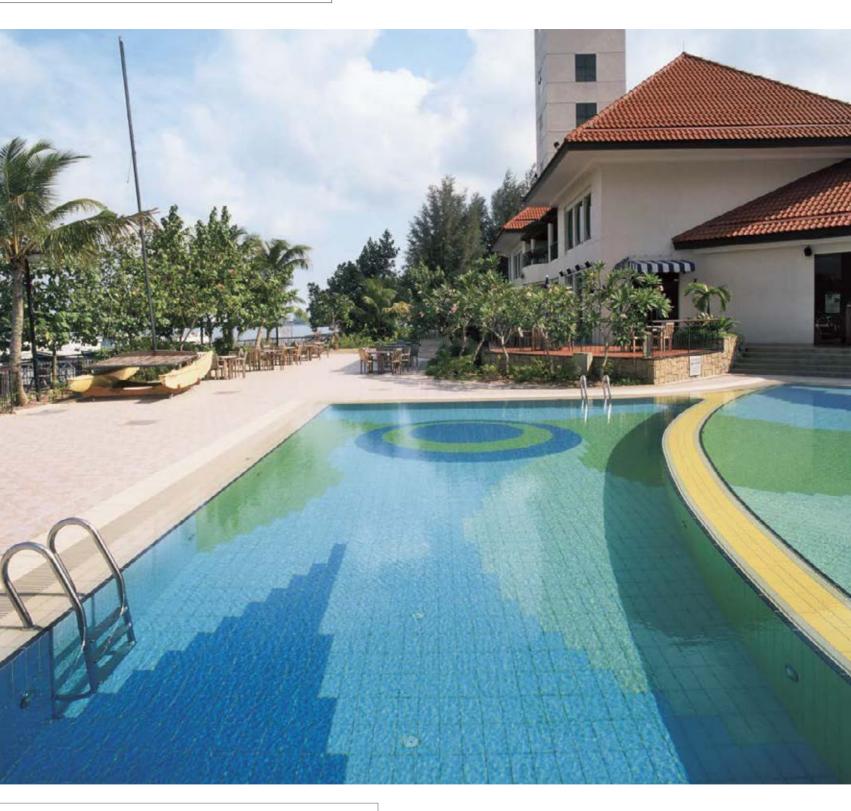
#### Hotel and private swimming pools



Project: Location: Architect: Phantasialand Brühl, Germany architectural department Phantasialand



Hotel swimming pool Punggol Marina Club, Punggol, Singapore



Project: Location: Architect: Hotel swimming pool Punggol Marina Club Punggol, Singapore RSP Architects Planners & Engineers (Pte) Ltd.

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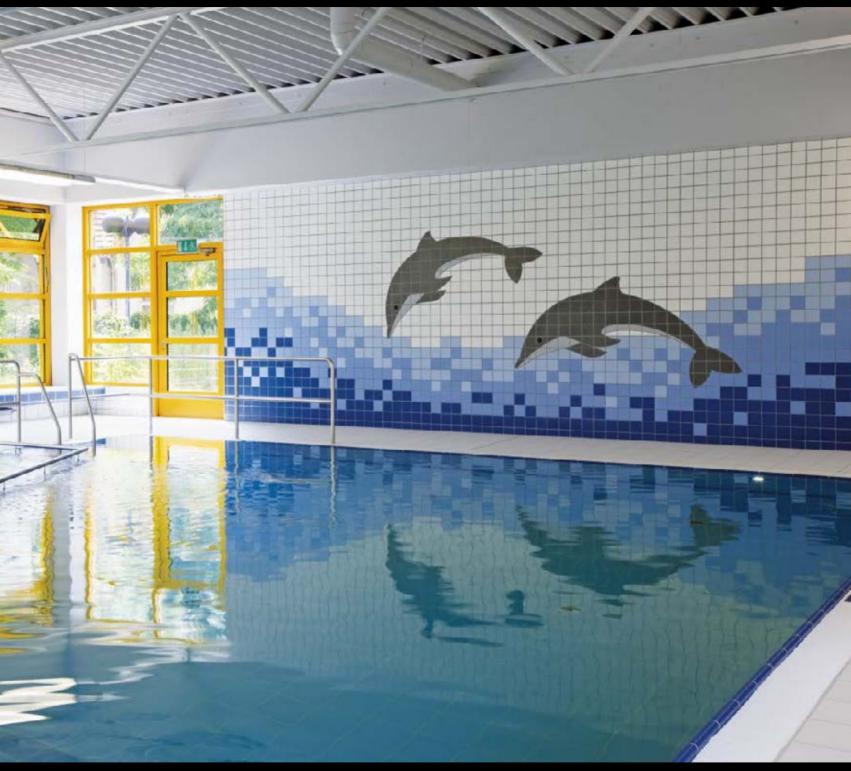
Project: Location: Ritz Carlton, hotel swimming pool Singapore Rheinische Schule für körperliche und motorische Entwicklung, Duisburg, Germany





STEULER-KCH Schwimmbadbau, Photo: SPA & HOME





STEULER-KCH Schwimmbadbau, Photo: SPA & HOME

Project:

Location: Architect: Rheinische Schule für körperliche und motorische Entwicklung Duisburg, Germany Dipl.-Ing. Gerhard Meickl, Ockenfels









### Water jet techniques

#### Colourful eye-catcher

A fine high-pressure water jet permits precise cuts of motifs realized from CAD plans. In this way, clear shapes in an enormous colour variety are created which are suitable for pool floors and walls. The individual tiles are numbered according to the supplied laying plan.



water jet cut motif



Series Chroma II, water jet cut motif

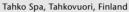


water jet cut motif

#### **Freehand paintings**



Swimming pool on the Queen Elizabeth II



## Ceramic "art at building" with a personal touch

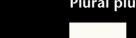
Unique works of art, durably burnt in: ceramic glazes applied manually offer unimagined possibilities for creative "art at building". No matter whether we realize drafts submitted to us or whether the architect or an artist charged by him does the painting by hand: there are no limits to expressing one's personal sense of style.

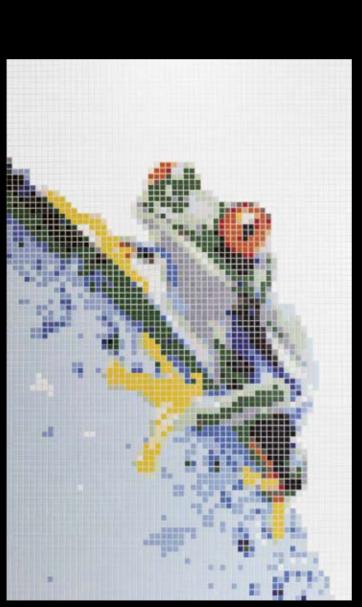


#### Glazes ... Glazes ...

Thanks to the enormous range of approximately 20,000 glaze colours, our customers can draw on unlimited resources for creative designs. On request, our laboratories also supply individual special colours (e.g. Corporate Colours). Private pool, Moscow, Russia

Mosaics





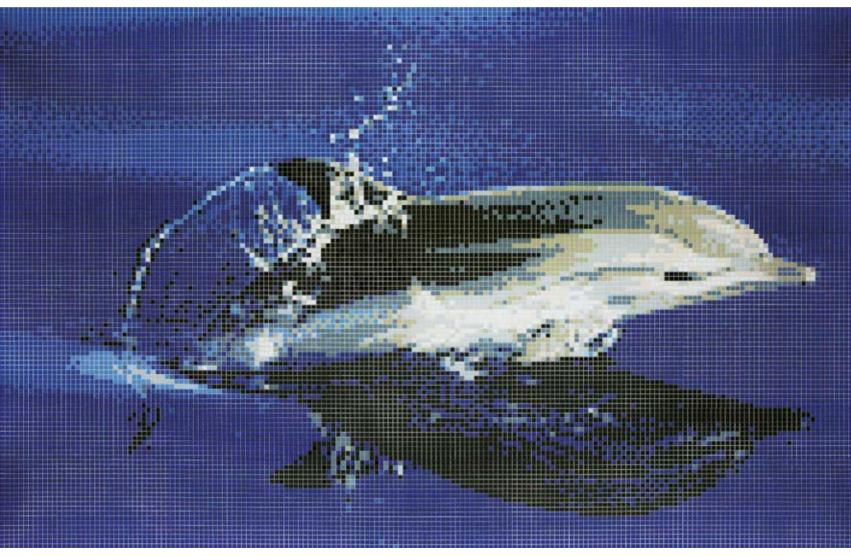
Fair presentation

Plural pl	us 2		
2530 light whit	a 2512-li	abt-vellow	2525 light-beige
		gareyenow	
2502 soft grey			2526 soft brown
			2527 accent brown
			2529 active-white
2505 light-blue	2517 lig	gnt-apricot	
2506 soft blue	2518 sc	oft apricot	
2507 accent blu			t
2508 deep blue			
2509 light-gree			
2510 soft green			
2511 accent gre	een 2523 ac	ccent pink	
2512 deep gree	n 2524 d	eep red	



## New: sophisticated mosaic pictures

As of now, AGROB BUCHTAL supplies mosaic pictures from the varied colour range of the series Plural plus 2, which offers particularly demanding design possibilities. The motifs are taken over from all types of drafts without grid pattern and realized with mosaic tiles in the mini-size of 2.5 x 2.5 cm. However, the pictures must be produced "centrically"; perspective representations are not suitable. The finished mosaics are supplied on exactly prefabricated sheets. A laying plan is attached.



Fair presentation





# Pioneer of slip resistance

Protecting the bathers against accidents caused by slipping has absolute priority for every swimming bath operator. For this, AGROB BUCHTAL, a pioneer in the development of slip-resistant tiles for eight decades, offers a wide range of solutions which are exemplary both in terms of aesthetics and safety. They are marked by the quality seal "GRIP".

Thus, high-quality tile series with correspondingly graded slip resistance are available for the different requirements in the individual bath areas – from the foyer to the wet barefoot zones – which at the same time offer optimal conditions for a comprehensive design.



Series Marino

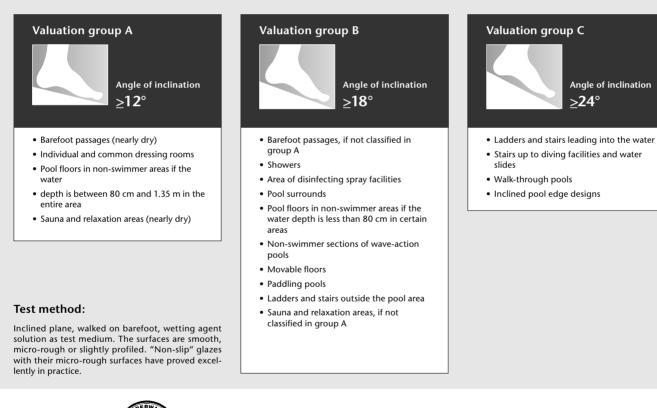


### Our test method - for guaranteed safety

Since the market launch of the first slip-resistant tiles in 1938, AGROB BUCHTAL has permanently further developed this innovation by intensive research. This is proved by renowned prizes for exemplary surface designs and functional improvements. The quality of our slip-resistant tiles with the "GRIP" seal is guaranteed by permanent controls of the in-house laboratories. In addition, regular analyses by external institutes and the participation in interlaboratory tests with accredited test laboratories ensure a neutral supervision.

The slip-resistance effect of the non-slip glazes of AGROB BUCHTAL is achieved by a micro-rough surface ensuring an optimal adhesion of the soles of the feet. These products are exclusively designed for barefoot areas. They guarantee high safety and particularly agreeable walking.

## Test on "inclined plane"







Competent authority: Deutsche Gesetzliche Unfallversicherung, Fockensteinstraße 1, 81539 Munich, www.unfallkassen.de.

Floors in wet barefoot areas, e.g. swimming pools, hospitals as well as dressing rooms, washrooms and showers in sports and work facilities. Test standard: DIN 51097, code of practice: GUV-I 8527 (GUV 26.17) "Floor coverings in wet barefoot areas".

#### Private areas

Barefoot areas

With regard to slip resistance, ceramic floor coverings in private areas are not subject to standard regulations. Independent of that, however, it is recommended to choose slip-resistant tiles according to your personal safety requirements.

## Format variety

The use of different formats is an adequate method for emphasizing, delimiting and rhythmically structuring surfaces with ceramic coverings. AGROB BUCHTAL offers swimming pool architects the appropriate materials for using this effective stylistic device also in areas requiring increased slip resistance.

The system Chroma, for example, offers a variety of formats usable within a graded modular system which extends from mosaics in the sizes of  $2.5 \times 2.5$  and  $5 \times 5$  cm (alternatively mono-coloured or mixed) up to the impressive large formats of the unglazed series Capestone and Marino ( $50 \times 50$  cm) as well as Rovere (up to  $50 \times 100$  cm).



#### Pôle Aqualudique, La Bourboule, France

Swimming pool Mahrzahn, Hohenschönhausen, Germany



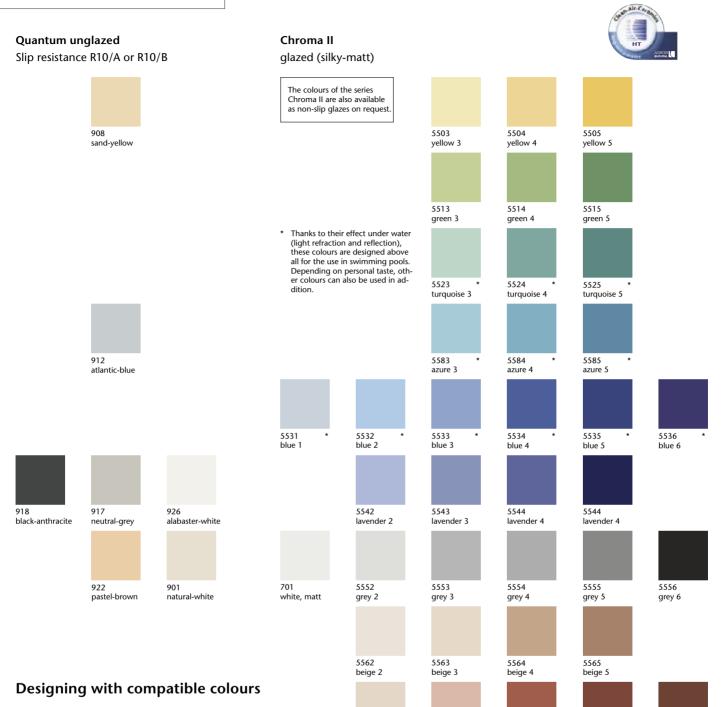
#### Beginners' pool, Wilhelmsdorf, Germany



Indoor swimming pool, Bad Bentheim, Germany



Slip resistance / Colour variety / System Chroma



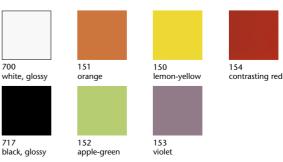
The versatility of application possibilities shows the creative potential of the colour sphere concept which – as characteristic feature of the system Chroma – reflects the central importance of colour in modern (swimming pool) architecture. On this basis, sports and leisure pools can be designed just as sovereignly as thermal baths and wellness oases.

#### Contrasting colours (glossy)

5573

cotto 3

5572 cotto 2



5574

cotto 4

5575

cotto 5

5576

144

intense blue

cotto 6

152

## Slip-resistant areas glazed / unglazed

Chroma II n Slip resistan		-/B 50 yellow 72 green 73 turquoise	-/C 66 yellow 67 green 68 turquoise	Rovere unglazed R10/A or R11	/В	Capestone unglazed R10/A or R17	1/В	Marino unglazed R10/A or R11/B
51 light-blue	58 blue	57 azure 52 dark blue	82 azure 84 dark blue	163 pebble-grey	173 pebble-grey			
91 white 55 light-beige	340 black	54 grey 53 dark beige 56 cotto	81 white 69 light-beige 79 cotto	160 natural-white 162 light-brown 161 chocolate-brown	170 natural-white 172 light-brown 171 chocolate-brown	659/669 mid-grey 658/668 lime-white	657/667 anthracite	640/630 papyrus-white 641/631 sand-beige 642/632 umber-brown
								No. 1

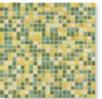
77 contrasting red 78 contrasting red



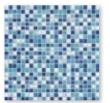
#### Individual designs with mosaics

At the construction of modern swimming pools, mosaics of AGROB BUCHTAL play an important part, because they combine an attractive look with effortless hygiene and slip resistance. In addition to the mono-coloured mosaics of the series Plural plus 2 and the mixed Chroma II Mosaics for the closer pool surroundings, mosaics from five other series are available which permit sophisticated solutions in diverse design variations also in the adjoining areas.

**Chroma II Mosaics** Mosaic mix 1 x 1 cm, 2,5 x 2,5 cm Slip resistance R10/B



5510 Colour sphere vigorous 5710 Colour sphere vigorous



5530 Colour sphere fresh 5730 Colour sphere fresh



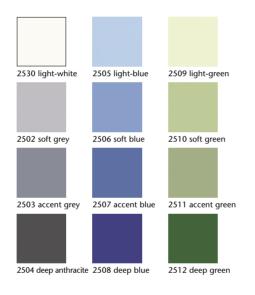
5550 Colour sphere pure 5750 Colour sphere pure



5570 Colour sphere warm 5770 Colour sphere warm

Plural plus 2 Mosaics

2,5 x 2,5, 5 x 5 cm and 10 x 10 cm Slip resistance R9 or R10/B



2513 light-yellow 2517 light-apricot 2521 light-pink 2525 light-beige 2514 soft yellow 2518 soft apricot 2522 soft pink 2526 soft brown 2515 accent yellow 2519 accent apricot 2523 accent pink 2527 accent brown 2516 deep yellow 2520 deep orange 2524 deep red 2529 active-white

The smooth mosaic surfaces of AGROB BUCHTAL are provided with a film glued on the face side. This offers the following advantages:

- according to the ZDB Code of practice "Swimming pool construction", suitable for laying in underwater areas and very wet areas
- full surface contact to the base, as there are no separation layers reducing the adhesion
- thanks to the transparent film, permanent checking of the joints is possible
- after the setting of the thin-bed mortar, the film can be removed without leaving any residue
- long setting times and cleaning operations involving a lot of work are no longer required

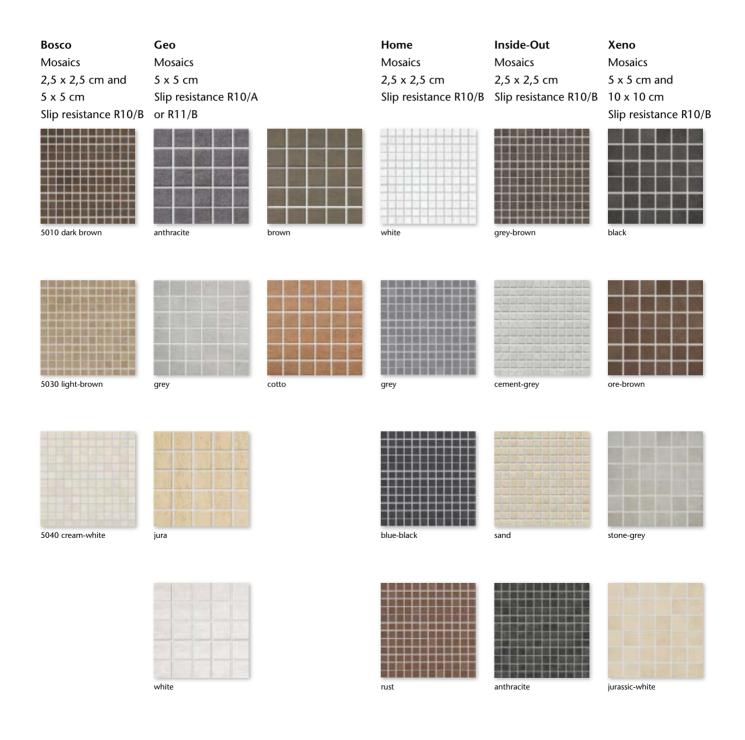


Chroma II Mosaics are perfectly suitable for the combination in compatible colours with the "Wiesbaden channel mosaic recess".

and 5 x 5 cm



With its great spectrum of colours and the variety of sizes from  $1 \times 1$  cm to  $10 \times 10$  cm, the mosaic range supports individual design concepts also in barefoot areas not permanently wet. Particularly attractive perspectives open up by the combination with the corresponding wall and floor series of the segments Public Life and Wall Design. The HT coating and Grip ensure easy cleaning and perfect safety also in changing rooms, showers and wellness oases.





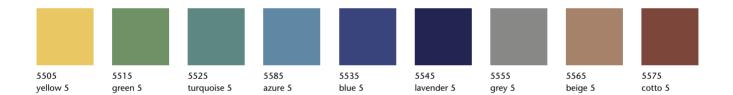
#### Lively variety for large surfaces

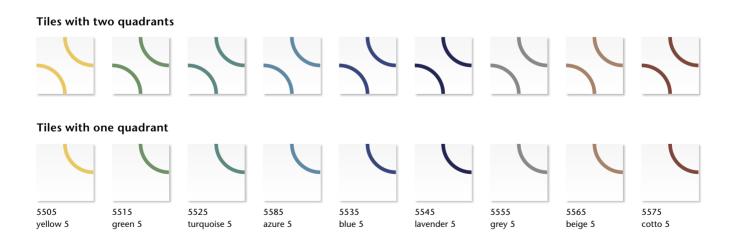
Examples of creative laying patterns

Thanks to its design, Chroma II PLAY! (format 25 x 25 cm) ensures creative accents at the design of large wall surfaces in the public sector. By means of only one geometric stylistic element, the quadrant, the series develops a maximum of inspiring variety, which lends indoor swimming pools, foyers, underground stations, stairwells and facades an unmistakable look. Attractive possibilities also result from the combination with the mono-coloured tiles of Chroma II.









We will be pleased to verify the technical and economic feasibility of your individual wishes outside of the select shown.

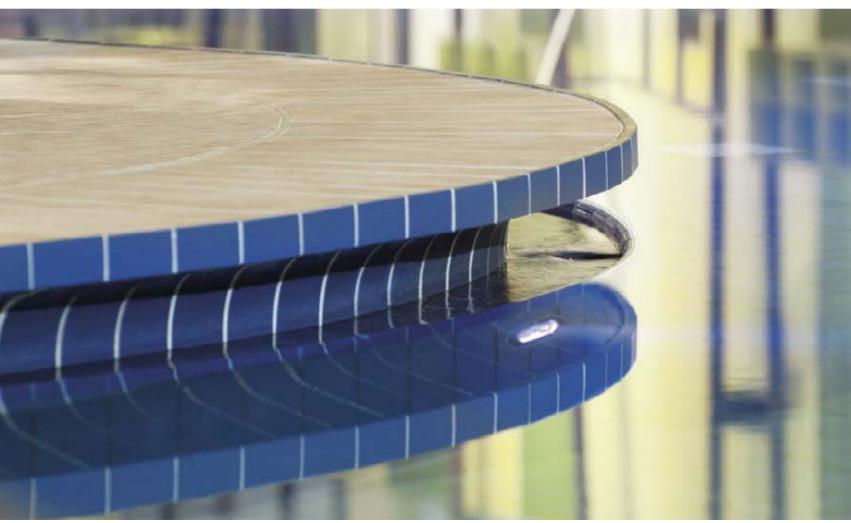
www.agrob-buchtal.de/chroma\_play

# Pool edge system "Bamberg"

#### System description

Large overflow channel with handhold-piece, outlet (Ø 75 mm), without cover grating. Suitable for many types of pools.



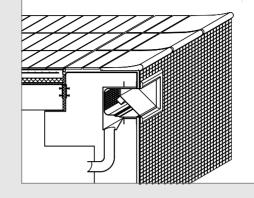


Freizeit- und Sportbad, Bamberg, Germany, Pool edge system "Bamberg"

# Pool edge system "Skimmer"

#### System description

System Skimmer with pool edging tile Residence.

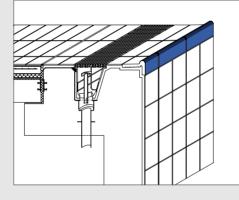




# Pool edge system "Zürich"

#### System description

Elevated overflow edge as an ideal handhold; covered channel with coved gutter tile and outlet valve SILENT 100. For public pools.

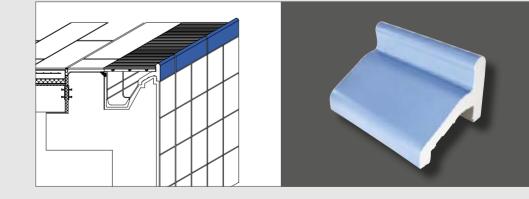




# Pool edge system "Berlin"

## System description

Elevated overflow edge as an ideal handhold; covered channel with "smooth" water inflow. For public pools and renovations.



#### Pool edge system "Wiesbaden"

As channel type with the lowest space requirement, which is also particularly simple to install, "Wiesbaden" proves itself in numerous swimming pools world-wide. The system is also available as "low-noise channel" Wiesbaden Silent, which reduces the noise of the water drainage by approx. 10 dB(A). The human ear perceives this as a halving of the noise level.

While the version with elevated water level and cover grating is suitable for the most diverse types of swimming pools, the variant without cover grating is recommended for pools with decreased water level, e.g. in therapeutic facilities. Two different channel sizes and inclined cover gratings minimizing the risk of stumbling at entrance areas and stairs enlarge the area of application in addition. And as the water overflow edge and the channel are produced as one solid piece without cavities, "Wiesbaden" is also particularly robust.



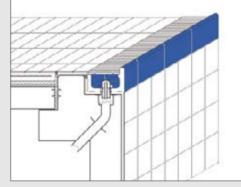
Terraced thermal baths, Bad Colberg, Germany, pool edge system Wiesbaden, elevated water level



## Pool edge system "Wiesbaden", elevated water level

#### System description

Large overflow channel with handhold-piece, cover grating and outlet valve SILENT W 2000. Suitable for diverse types of pools.

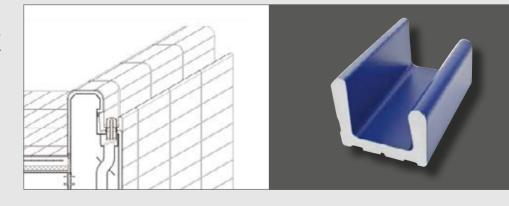




# Pool edge system "Wiesbaden", decreased water level

#### System description

Small overflow channel (without cover grating) with outlet valve SILENT W 2000. For therapeutic pools.





Swimming pool, Schwarzenfeld, Germany Pool edge system "Finnland II"

#### Pool edge system "Finnland II"

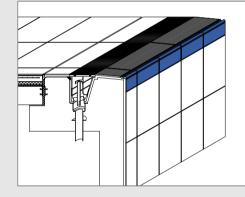
Consisting of a sloping edge with handhold-piece, which slightly ascends from the pool to the surround, Finnland II is the technical realization of a natural beach. The water flooding the pool edge flows into an overflow channel, which can be equipped with the outlet valve SILENT 100 on request, with cover grating. A pounding back of the waves is avoided – a fact which is advantageous above all in the case of sports pools.

As modern, visually revised version of the well-proven Finnland system, Finnland II is optionally supplied with grooved tile or inclined grooved tile with integrated grating support, which decisively simplifies the concrete work. Another advantage of the system is special pieces up to a length of 50 cm which permit a reduction of the number of joints. Of course, Finnland II is also produced as solid piece without cavities and thus extremely robust.

#### Pool edge system "Finnland II"

#### System description

Sloping, beach-like pool edge with handhold-piece; covered channel with coved gutter tile and outlet valve SILENT 100. Especially suitable for sports and competition pools.

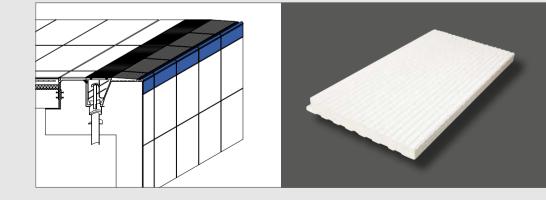




## Pool edge system "Finnland II"

#### System description

Inclined grooved tile with integrated grating support for the execution of the sloping, beach-like pool edge, which reduces and simplifies the concrete work.



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DGNB Deutsche Gesellschaft für nachhaltiges Bau Gernfen Sustanable Bulläng Council 11/2012