



# Swimming Pools

**WAVES**  
POOLS



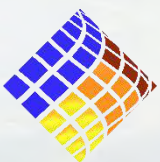


## Where there's a will, there's a way

*Finding ways has made us **Waves Trading and Contracting** leading pools contractor with a sound foundation of more than 35 years of experience in swimming pool construction and water features technology.*

*We are committed to providing products made of high-quality materials with components that work together perfectly, promising easy handling and maximum durability. For us, reliability starts with product developments and ends with families enjoying more fun and leisure time together around their pool, thanks to perfectly coordinated technology and first class quality.*

**Waves Trading and Contracting: Your partner for a prestigious, pool automation and accessories.**



# Concrete Pools



## COMPLETELY PERSONALIZED

Pools are designed and built according to specific individual requirements, thereby increasing their real value.



## CERTIFIED STRUCTURAL SOLIDITY

A technology designed specifically to eliminate the weaknesses of structures, redistributing the load and improving the performance of the materials.



## THE BEST POOL EXPERIENCE

Swimming areas, beaches, submerged seating and walkways modeled in natural stone offer the best possible bathing experience.



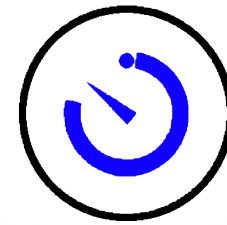
## PROTECTED BY INTERNATIONAL PATENTS

Puts a real dampener on the competition and ensures more stable margins for the entire network.



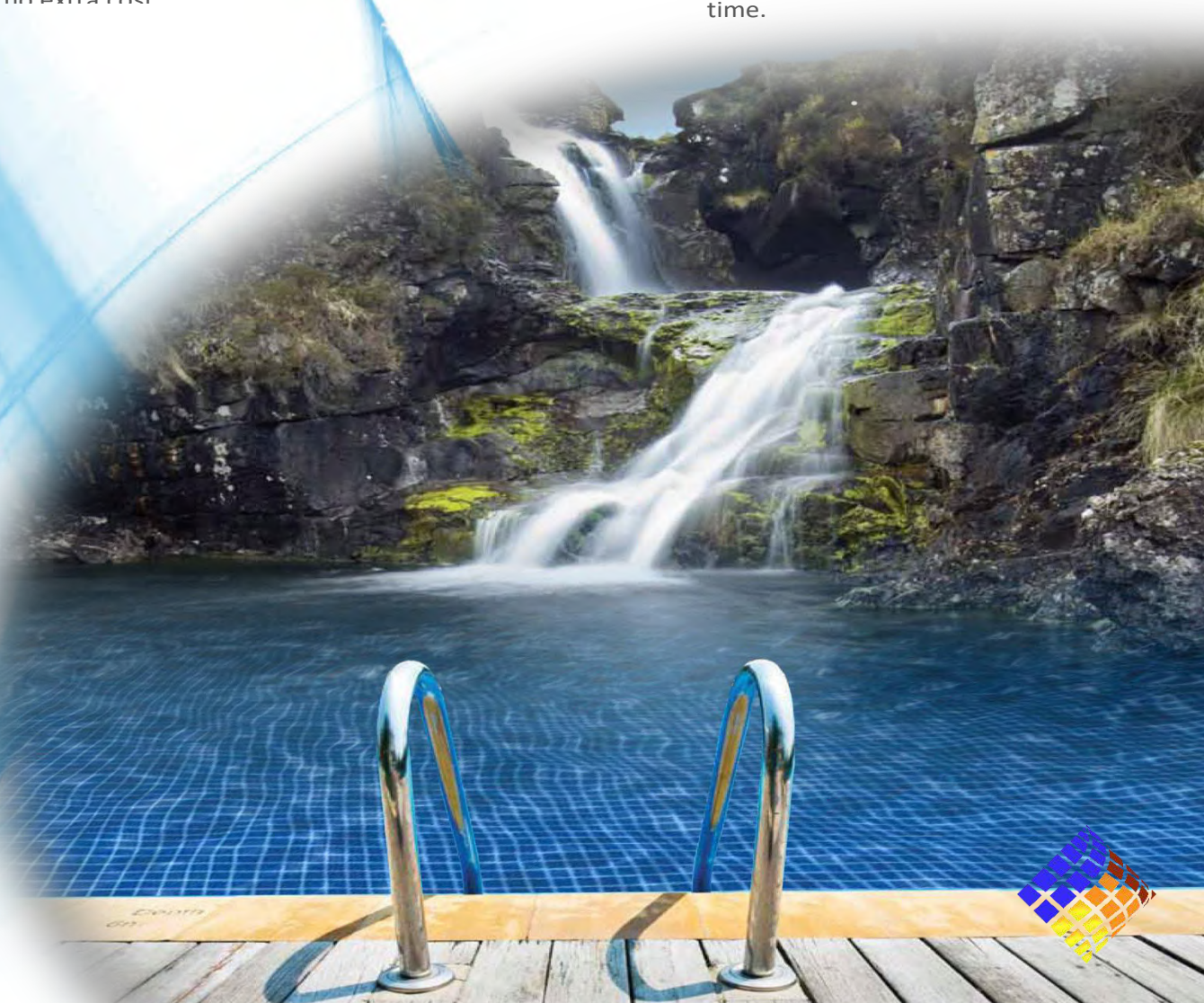
## ENVIRONMENTALLY FRIENDLY CONSTRUCTION TECHNOLOGY

A construction technology that substantially reduces the environmental impact of your choice to build a pool at no extra cost



## SHORTER CONSTRUCTION TIME

The ease of worksite management and reduced installation time reduce disturbance and enable consignment of the complete pool in a shorter time.



# Civil Works

**Waves Trading and Contracting** have been delivering the highest quality pools in the Gulf market since the company's inception in 1980.

We have an unrivalled depth of specialist experience and an unequalled history of completed projects in all segments of the market, from rooftop pools of residential towers, to sports clubs, hotels, resorts and aqua parks.

There is simply no project too large or too complex for us to undertake. Satisfaction of technical specifications and client acceptance are absolutely guaranteed.

Our Unique Shotcrete Concreting Method can be expected to attain high compressive strengths particularly with a low water/cement ratio and the dense compaction achieved by the high velocity of application. Rapid strength gain is also achieved, especially when using factory batched materials. Compressive strengths 30% higher than conventionally placed concretes can be expected.

The high velocity of placement ensures good compaction and high density coupled with low permeability and water absorption. This results in a durable homogeneous material with excellent freeze/thaw resistance, low surface cracking and a high degree of abrasion resistance.

Shotcrete can deliver high volumes quickly and economically.



# Swimming Pool Construction

## 1. Setting Out and Survey



A setting out survey involves the marking out of any physical feature that appears on an engineering plan, in its correct position on the ground. These surveys are normally required during the construction of pools.

## 2. Cleaning and clearing of Grade



Soon after the survey, cleaning and clearing the existing grade will start. All contaminated and waste materials will be removed and disposed of- site. Before filling (if required) commences, the sub- grade will be watered, levelled, compacted and tested.

## 3. Excavation/ Filling/ Compaction

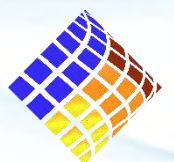


The area to be excavated shall be properly marked and clear before starting the works. As soon as the excavation reaches the required depth/elevation the surface shall be leveled and shall be compacted to required density. Before the compaction starts, it shall make sure that the excavated level is free from standing water or excessive moisture content.

## 4. Stub Plumbing



After the completion of the compaction and testing of the final layer, trenches for laying all the UPVC pipework below the base slab will be excavated and formwork in sacrificial block work constructed for the sumps. All pipework will be laid as per approved drawings and supplier's specifications, pressure tested for a minimum period of 24 hours prior to backfilling and levelling to the required profile.



## 5. Blinding Below the Base Slab



Blinding concrete to the required thickness as approved will be laid on a layer of 1000g polythene sheet over the prepared surface. The blinding concrete will extend a minimum of 200mm beyond the edge of the base slab. This is for the installation of sacrificial block work.

## 6. Formwork



Formwork for the outer edge of the base slab and walls will be in the form of hollow blocks laid on cement sand mortar on the blinding concrete. The constructed block work will be left as sacrificial formwork. Areas where both sides of the wall are exposed and / or are restricted, conventional formwork with timber will be used or expamet 'HIRIB' will be tied to the rebar as a permanent in-situ formwork.

## 7. Membrane and Protection Board



For horizontal & vertical waterproofing membrane application, a single layer of modified bituminous membrane shall be laid fully torched on blinding concrete & hollow block respectively. Waterproofing membrane will be protected by concrete screed for horizontal surfaces and protection board for vertical surfaces. Both waterproofing membrane and protection board will be installed by using cylinder fed propane gas torch.

## 8. Joints



Expansion joints (if any) will be provided in the base slab/ and walls. Waterstop of approved type and size will be provided above the blinding/formwork. Standard T, L etc. pieces, where required, will be used for joining the waterstop.



## 9. Reinforcement



All rebar will be cut, bent and stored according to the relevant code of practice. All rebar will be placed to the required spacing as per design and tied with binding wire. Cover blocks will be used to obtain the required cover to the rebar. Two layers of rebar will be separated with 'chairs' made of 8/10mm rebar. Lapp lengths of 50 times the diameter of the bar will be provided.

## 11. Shotcrete



An approved mix design shall be used for affecting these works. Joints will be left at approx. 45 deg. angle and scarified with a sharp toothed trowel to ensure proper bonding at the joints. Any rebound / loose material will be completely cleaned and removed. After the concrete has begun to harden it should be protected from quick drying with hessian sheeting and wetted continuously. Curing of the concrete will be continued for a minimum of 7 days from the time of casting.

## 10. Pool Fittings

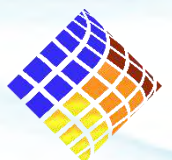


Prior to the installation of the pool fittings all MEP embeds shall be rechecked to ensure compliance with the requirements and final location of the fittings.

## 12. Backfilling



After curing of the concrete, cleaning and clearing the surrounds will start. All contaminated and waste materials will be removed and disposed of-site. Before back- filling commences, the sub-grade will be watered, levelled and compacted.



### 13. Installation of the Coping



The coping will be bedded on a site mixed mortar of cement, washed aggregate and mixed with water as required installed approximately 25mm thick as a levelling course. A thin bed of the tile adhesive is installed on the mortar bed while it is still green and the coping/edging is set over this to line and level. All joints in the coping will be grouted.

### 14. Scratch Coat



The surface shall be saturated with water and any standing water shall be removed. A thin layer of cement slurry shall be applied to the surface. Floating and wooden trowelling shall begin when the water sheen has disappeared, and when the mix has stiffened sufficiently to prevent excess fine material from working to the surface.

### 15. Laying of Finishes



Work should be planned to start fixing at the top of the areas to be covered. The precise recommendations of the adhesive manufacturer should be followed concerning the suitability of the background, the mixing procedure, the method of use, the thickness of adhesive and the open time after spreading. It is important to the appearance of the finished that unsightly cut are avoided and that joints are of a uniform width.





# Electromechanical Works

Having more experience in constructing Swimming pools, **Waves Trading and Contracting** gained a good reputation in supplying and installing swimming pools with all electro mechanical systems for both private and commercial. Swimming pool filtration system is very valuable part of this mechanical system. Continuous disinfection system means a system consisting of a chemical tank, chemical feeder, and device to regulate the flow of disinfectant into a spa or pool water return line.

Our team of experts can help with the latest design and equipment used for constructing swimming pools, high quality service, and work hand-in-hand to make your dream come in reality within your budget on time.

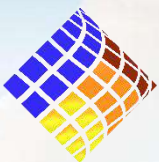
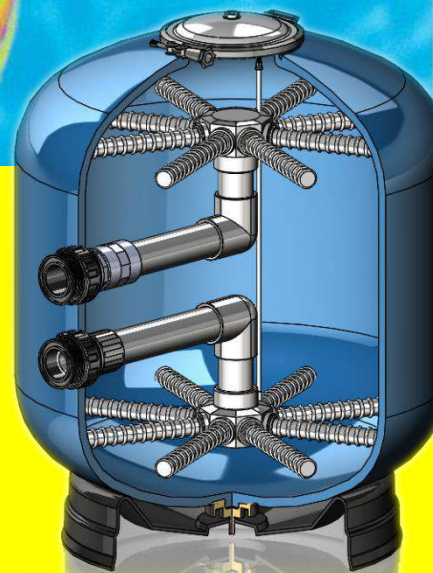
**Waves Trading and Contracting** offers a full line of the very latest in pool electro mechanical system ensuring your pool water is clear and clean. All electro mechanical equipment's are engineered and designed to deliver reliable, all-weather performance with minimal care on today's most demanding installations.



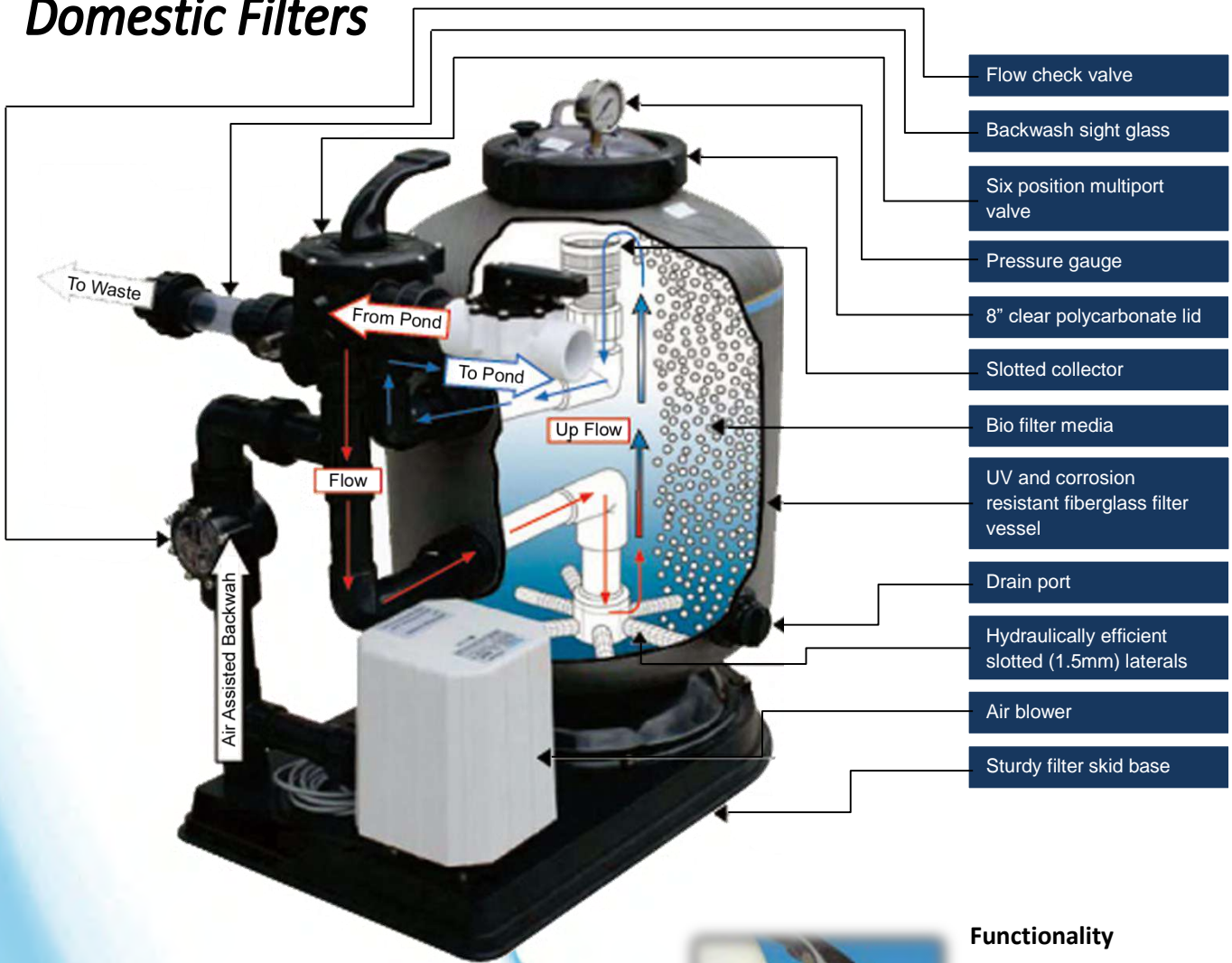
# Filters

- *Domestic Filters*
- *Commercial Filters*

**For a  
crystal  
clear  
perspective**  
*Filter systems  
for clean,  
hygienic water*



# Domestic Filters



- Flow check valve
- Backwash sight glass
- Six position multiport valve
- Pressure gauge
- 8" clear polycarbonate lid
- Slotted collector
- Bio filter media
- UV and corrosion resistant fiberglass filter vessel
- Drain port
- Hydraulically efficient slotted (1.5mm) laterals
- Air blower
- Sturdy filter skid base



## Functionality

Fitted with multiport valve with 6+1 positions for filter, backwash, rinse, recirculate, waste and closed. A valve so reliable, it's used with most filters.



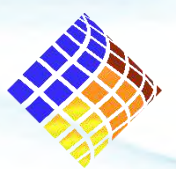
## Easy handling

The system exerts uniform pressure over the entire watertight joint and makes it easier to loosen the cover.

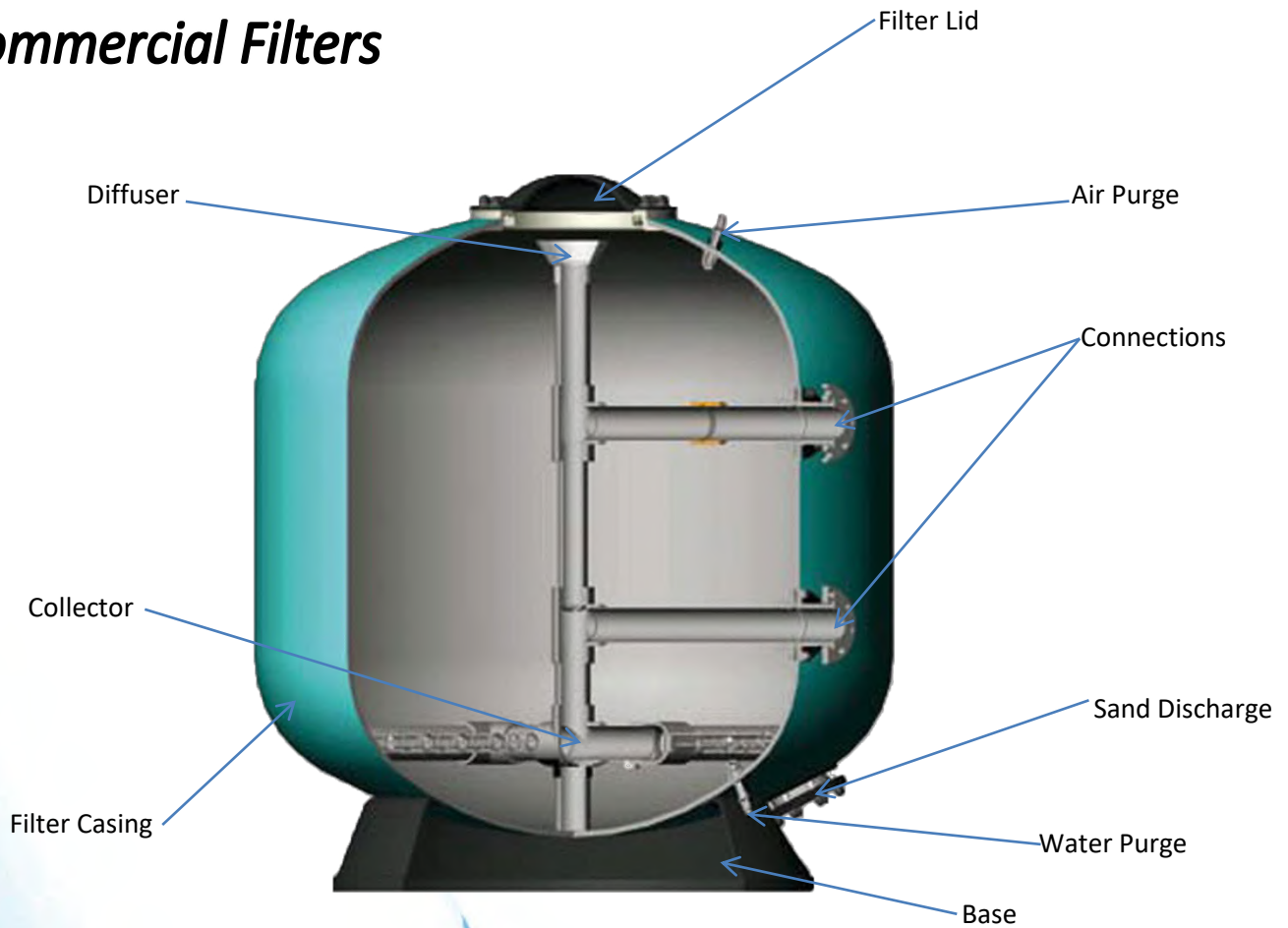


## Capacity

1" collectors increase the filtering surface and improve efficiency.



# Commercial Filters



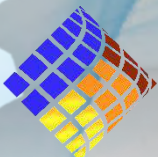
**Structurally resistant filter**  
The filters are composed of 2 layers: internal polyester and fibreglass liner with simultaneous projection and a second one wound with fibreglass and polyester resin layer.



**Less Load Loss**  
The increased diameter of the collector arms eliminates intermediary joints and longer screw threads injected into the tubes this achieves less load loss. Each filter is the same size as the corresponding collector arm, thus eliminating the need for intermediary joints.



**Sand discharge**  
Filters have a large sand discharge manhole which enables the sand drainage to take place during the maintenance or sand replacement operations.

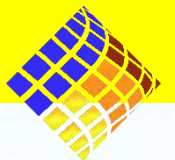


# Pumps

- *Domestic Pumps*
- *Commercial Pumps*



**Save Money and Energy!**  
*Our pool pumps are the most energy efficient*



# Domestic Pumps

- 1 - Transparent prefilter lid
- 2 - Prefilter lid mechanism
- 3 - Connection hoses
- 4 - Easy-to-open bleeder plug
- 5 - Prefilter with 4.7-litre capacity
- 6 - Prefilter basket to prevent solid particles from entering the hydraulics
- 7 - Impeller
- 8 - Mechanical seal in AISI 316; fixed part in silicon carbide
- 9 - Ball bearings suitable for working at high temperatures and high rates of humidity
- 10 - Class F insulation Euro voltage motor. IP-55 rating
- 11 - Extra-stable pump base



## Improved pump base

The pump base have been combined to improve the pump's and motor's support when required.

## Large-capacity prefilter

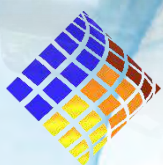
The pumps feature a prefilter with a large capacity allowing the convenience of longer cleaning intervals.

## Rapid inspection

Pumps have a new easy to handle lid-locking nut which is compatible with other pumps.

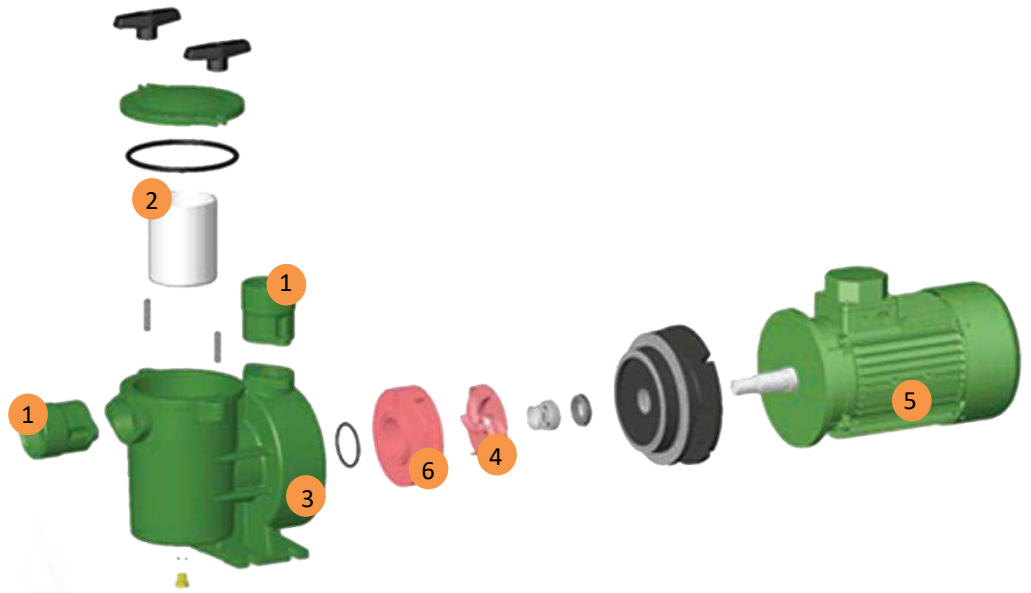
## New generation lid nut

Easy-to-operate prefilter lid nut that uses a built-in mechanism for opening and closing.



# Commercial Pumps

- 1 – Threaded Outlets
- 2 – Technical plastic strainer basket with stainless steel handle
- 3 – Pump housing with built-in pre filter
- 4 – Dynamically balanced impeller
- 5 – Eurotension motor
- 6 – Diffuser



## Easy Maintenance



The pump's construction allows for complete dismantling and removal of moving parts through the side connection, without having to remove the pump housing from the installation.

## Sturdiness and Durability

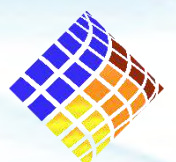


The cast one-piece base and pump housing design guarantees a solid structure that will remain intact for the working life of the pump.

## Motor Insulation



The pump motor is completely protected from water seepage, and thanks to its insulation, can withstand internal temperatures of up to 155°C.



# Heaters

- *Heat Cool Pump*
- *Electric Heaters*



**Extend your  
bathing season**

Heat pumps ensure  
a pleasant water  
temperature all year round





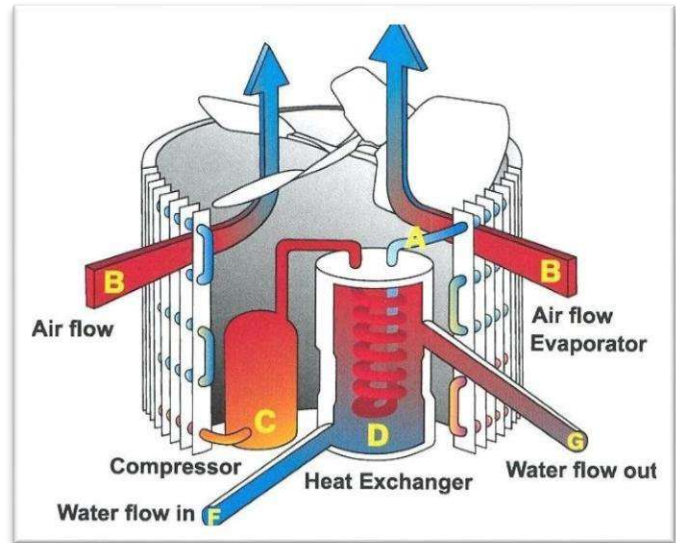
# Heat Cool Pump

## CONTROL SYSTEM

- Advanced main controller and smart LC D wire control
- System protection with high/low pressure switch, overload protection, pressure valve etc.;

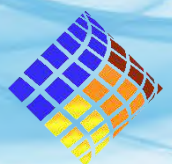
## UNIT FEATURES

- Economical and highly efficient
- Easy installation and servicing



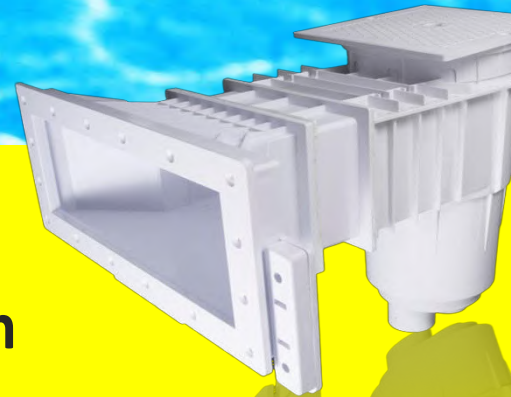
Designed to cope with the demands of the modern aquatic facility, no matter how large or small. It is air sourced heat pumps heat or cool the water to meet your exacting requirements. It uses state of the art controllers to enable the machine to heat or cool your pool water with efficiency and low operating costs all at one of the most economical capital outlays available.

It is designed with a reinforced base with an extra strong surrounding cabinet to ensure long life. The high grade powder coated cabinet and double epoxy coated evaporator coil minimizes the potential for rust and corrosion and extends the life of the unit. The titanium heat exchanger is housed in a fully injection molded PVC container which ensures not only corrosion free performance of the heat exchanger, but the ability to withstand the high pressures that pool pumps can produce.

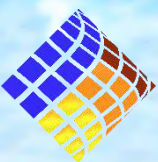


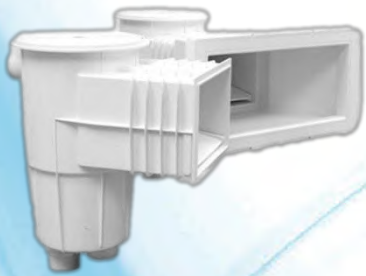
# Fittings

- *Skimmers*
- *Main Drains*
- *Overflow Drains*
- *Inlets*
- *Vacuum Points*



**Going with  
the flow**  
*Fittings of  
uncompromising  
reliability*





### Skimmers

Skimmers are used to collect the surface layer of the water so it can be filtered and treated. They also come with an inner strainer basket to collect bulky foreign particles.

### Inlet

The inlets return the filtered, disinfected water to the pool. They should be placed on the wall facing the skimmers or at the bottom of the pool to prevent dirt from settling.



### Main drains

Located in the deepest part of the pool, the drains collect water from the bottom so it can be filtered or fully drained from the pool.



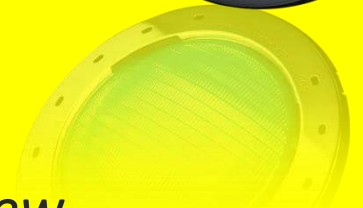
# Lighting

- *Underwater Lights*
- *Spa Lights*
- *Accessories*
- *Transformers*
- *Deckbox*



**Light up your pool!**

*Give your pool a fascinating new dimension when the sun goes down.*



## ***Underwater Lights and Accessories***



The pool is part of the garden, why shouldn't you light it as well? A lighted pool is beautiful, convenient and safe. Lights are manufactured of injection moulded ABS plastic or stainless steel for long-lasting, superb quality that stays looking great! We've created lighting that will let you forget about the sun...



### **For all kinds of pools**

For unlighted pools: the flat light requires no niche and is attached directly to the wall.



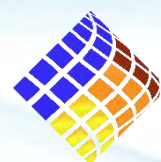
### **Enjoy having your whole pool lit up**

Mini light, specially designed for spas and stairways.



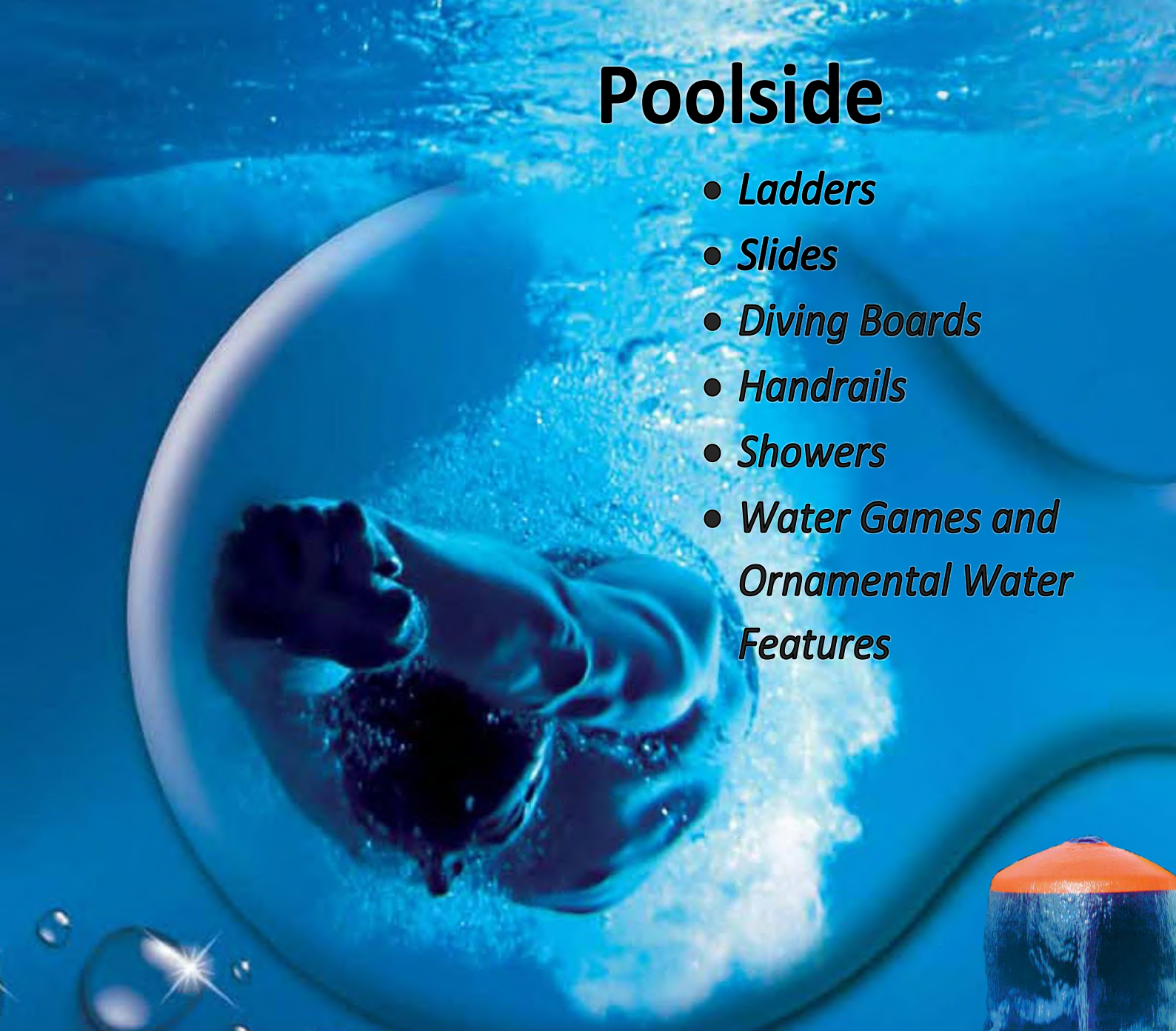
### **The best finish**

Stainless steel lights, elegance in every detail.



# Poolside

- *Ladders*
- *Slides*
- *Diving Boards*
- *Handrails*
- *Showers*
- *Water Games and Ornamental Water Features*



**Enhance and  
Transform your  
Swimming pools!**



## HIGH STARTING BLOCK

The ideal solution for deck-level swimming pools (without a headwall).

- Electro polished stainless steel;
- Height 70 cm;
- supplied with adjustable backstroke starting handle;
- supplied with anti-slip stainless steel platform;
- The static tests performed in compliance with national regulations “demonstrate that the structure has been extensively proven to support a weight of 500 Kg. on top, with an additional reasonable margin of safety”.



## GRAB RAILS

Grab rail manufactured with a polished stainless steel tube measuring 48.3x1.5 mm. for use with built-in masonry steps. These can be installed using the PP anchors complete with a decorative flange or with stainless steel floor anchors.

## WATER CURTAIN CASCADE

Stainless steel with a polished finish, it creates a curtain of water with a width of 500 mm. Ideal for an enjoyable massage or to create a spectacular effect. Particularly indicated for wellness centres, hotels and swimming pool. Supplied featuring a floor anchoring system, gaskets and stainless steel screw fittings.

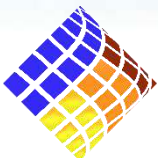


# Covers and Rollers

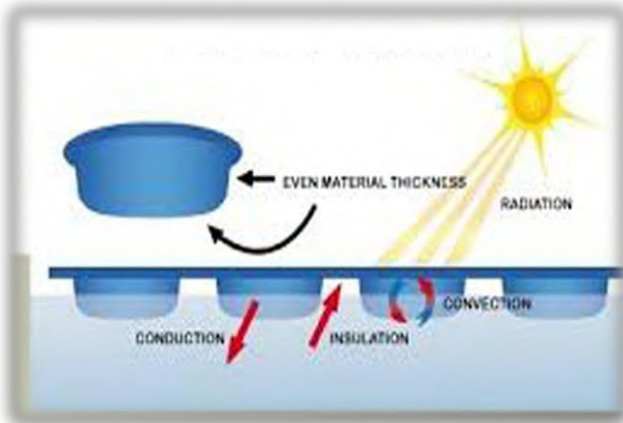
- *Covers*
- *Rollers*



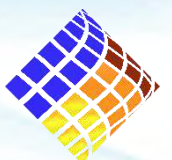
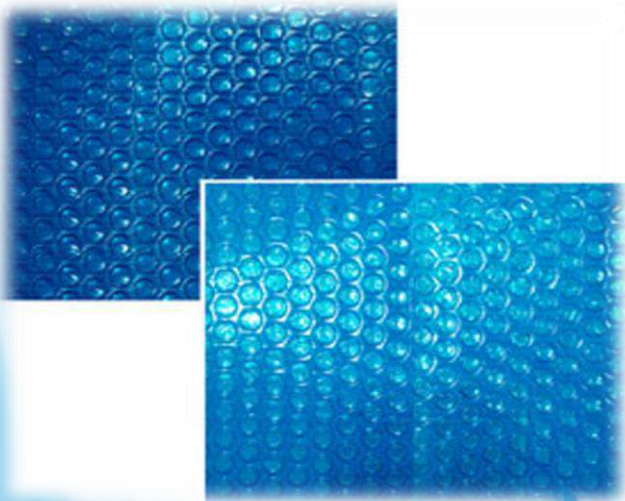
**Use Solar Covers!**  
*Reduce pool water evaporation and heat loss by 95%*







A solar cover minimizes heat loss from evaporation by acting as a barrier between swimming pool water and the air. Specifically, you can reduce your swimming pool heating costs by up to 70% by using a solar cover. It is made with a heavy-duty polyethylene material works with the sun to catch and retain heat of the swimming pool water. Helps raise the water temperature by absorbing sunlight during the day and retaining the heat at night, extending the pool season. Savings come from a reduction in water evaporation. Material is highly resistant to ultraviolet rays which inhibits deterioration. Available in a range of grades and standard sizes. Custom sizes are available




# Pool Cleaning

## Water Treatment

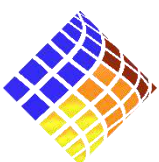
- *Salt Chlorinator*
- *Dosing Equipment*
- *Ozone Equipment*
- *UV Radiation Equipment*
- *Chemicals*

## Maintenance

- *Pool Cleaners*
- *Handles*
- *Cleaning Equipment*



**Save lots  
of time  
*Easy-to-use  
cleaning  
accessories with  
a long service life***





Suction side cleaner suitable for all types of residential pools. It is connected to the skimmer or the pool cleaner vacuum fittings, vacuuming the floor as well as the walls. It operates silently thanks to membrane technology, using the pump of the filtration system as the energy source. The impurities are retained by the pool's filtration system. It is easily installed by the end user without tools. It comes with 14 sections of flexible hose to adapt it to any pool size.

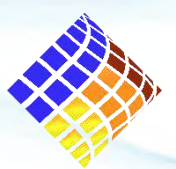


Multi-cellular pump for use with automatic cleaners. Pump body in noryl with fibreglass. Shafts and screws in Stainless Steel AISI-316. Mechanical seal in S.S. and Graphite. Motor: protection IP-55, isolation class F, non-stop operation, 2850 rpm

It is a robotic pool cleaners that has a cutting-edge technology and contemporary design for private pools. Three-dimensional filters comes with a new ultrafine 3D filter as a standard feature. It has a LED indicator that shows when the filter is full.

Advantages of a single platform and a block comprising 2 motors and 1 filtration pump:

- Improved power transmission.
- More effective vibration cleaning brush.
- Lasts longer: no drive belts required and enhanced motor seals.
- Enhanced features: double traction motor + Gyro system.
- Easy for customers to repair: 4 screws to replace the motor block and direct access to gears and bearings.





New system for more efficient scanning with greater coverage of the pool. Recommended for pools up to 25 m in length. Cleans floor, walls and waterline, cleaning cycle 4, 6, 8 hours. Cable length 36 m + Swivel. 2 ultrafine filtration bags. Digital transformer. New remote control allows manual switching, set cleaning programs and parameters.



Is an efficient cleaning system, consisting of a six outlet distributor valve that receives clean water from the filter and distributes it sequentially to a series of nozzles installed on the pool floor. As pressurised water exits the nozzles, it lifts dirt from the bottom into suspension to be collected by the skimmer and the drain. It offers a more efficient and cost effective alternative to other cleaning systems as it provides a more uniform distribution of the pool temperature and chemicals. Distributor valve optimized for greater hydraulic performance. Maximum working pressure of 1.5 bars. Maximum flow 8 of 25 m<sup>3</sup>/h. Connections: 7 x Ø63 mm or 7 x Ø75 mm. From 2 to 5 nozzles per branch.

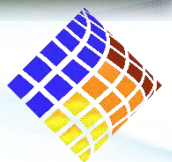


# Finishing Works

Finish your pool with distinction! **Waves Trading and Contracting** offers a wide array of colors and textures to make your pool as unique as you are. Today's pool and spa owners have many reliable and beautiful swimming pool finish options available. **Waves Trading and Contracting** wants to help you select the best pool surface material for your specific needs.

The interior finish of a pool can transcend its design to a whole new level of style and grace. There are many types of pool finishes to choose from, including plaster, tile, and aggregate finishes, and each type comes in an array of materials, colors, and textures. From classic white plaster, to sparkling iridescent glass mosaic tiles, to a multicolored blend of river pebbles or glass beads - you'll find a finish to suit every pool.

Whether you're building a new in ground pool or starting a pool renovation project, the pool finish you choose will have a significant impact on your pool's final design aesthetic.



## Tile Finishes



Tile is one of the most durable pool finishes and offers an array of design possibilities. Tiles are often applied to the pool's waterline, floor, or steps to provide a colorful accent; they can also be used to finish the total interior of a pool. Tile's glossy appearance makes the most of water's reflective properties and is adored for the artistic look and upscale glamour they lend to pool designs and other water shapes.

Though tile is the most expensive type of pool finish and takes longer to install than plaster and aggregate finishes, it is the longest lasting pool surface. With proper application and minimal maintenance, tiles should never need to be replaced.

Tile pool finishes include ceramic, porcelain, glass and stone tiles. All pool tiles come in a vast selection of shapes, styles, colors, and sizes, offering virtually endless combinations and designs.

**Ceramic and porcelain tile** are the most popular and least expensive tile pool finish. A number of ornate patterns and mosaics—from whimsical fish to flowers to Art Deco graphics to Mediterranean motifs—can be hand painted on ceramic pool tiles for a bold and unique look.

**Stone tile**, such as granite, marble, slate, and limestone, is popular for finishing natural pool designs because they help blend the pool with the surrounding landscape.

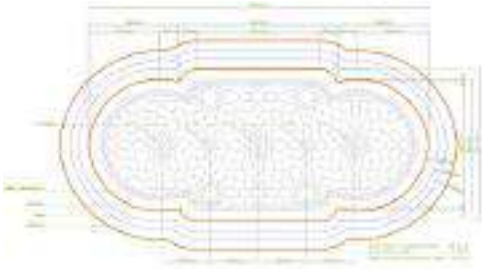
Stone tile will also complement pools or homes with a modern architectural style.

**Glass tile** has been rising in popularity over the past few years thanks to both its resilience and mesmerizing aesthetics.

Glass tile is impervious to moisture and non-porous, so it does not erode or stain. Glass tile also has the ability to manipulate and magnify light, which gives pools a bright, clear shimmer no other tile can produce.



# Creativity and Customization

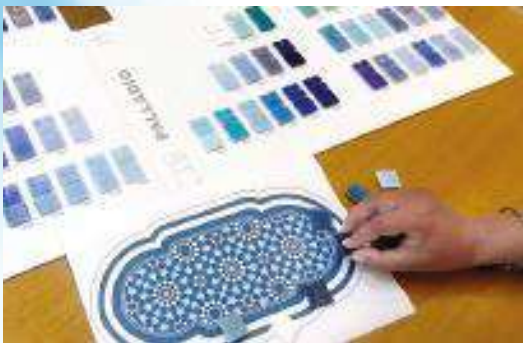


## 01. Project layout

One needs to indicate the exact dimension of the surface where mosaic needs to apply. The drawing specifying the same can be provided in the form of AutoCAD, hand drawn, a picture etc. The drawing has to be clear about all dimensions i.e. horizontal, vertical including openings.

## 02. Design Selection

One can select any design / image which you want to replicate in mosaic. The selected image can be in any format i.e. jpeg/bmp/tiff or can be in any other form i.e. a photo / a piece of fabric / a painting / a sketch etc., but ensure that it is high resolution and clear. Clear and sharper image results in better conversion of mosaic into design. Here, selection of mosaic format should be based on viewing distance, design dimension and the intricacies of the design.

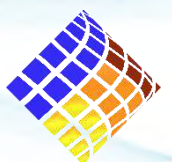


## 03. Color Selection

One needs to give proper attention while making selection of colors from our color palettes which is available in our shade cards. Such selection should do justice to the selected design, surrounding ambience and helps in truthful realization of your visualization.

## 04. Design Elaboration

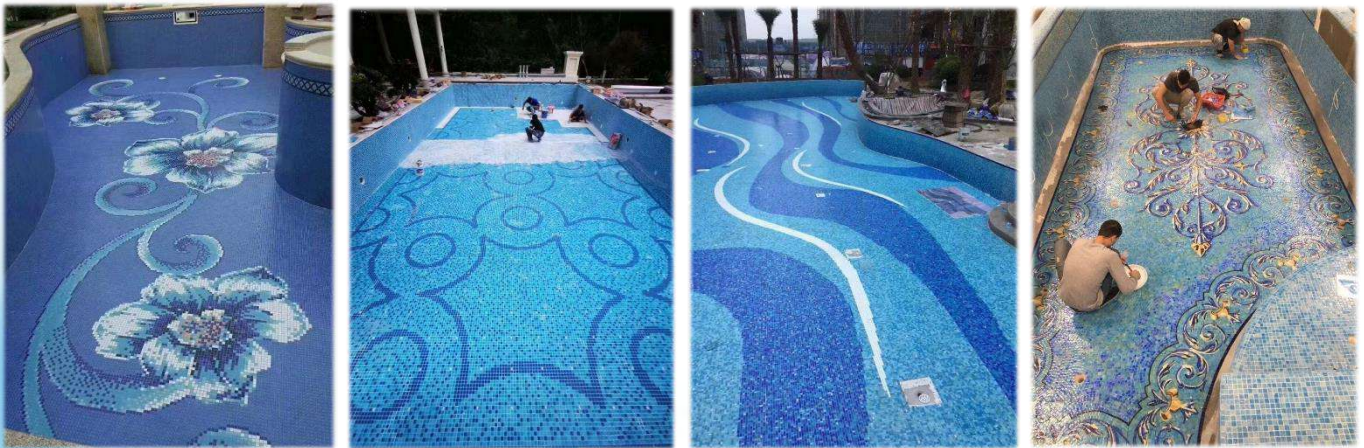
Once the above three inputs are clearly provided, our designers do the design simulation and colour elaborations through our exclusive graphic software. The designing technique such as Aligned, Classic, Modular, Artistic or Combo Tec is used depending on client's choice and / or design requirements. Use of mosaic format whether big or small, full mosaic or cut mosaic will depend on technique used and client's request, application area and need of the design.



## 05. Design Production

Once the Design is elaborated and converted in the form of mosaic, it is sent for client's approval. Upon approval from client, the design is taken for production. Each mosaic being unique in look, colour, shape and size is positioned by hand as per the "Production Plan". In order to adhere the quality norms, all the designs are laid dry at production plant, thereafter each sheet is numbered in excel format for ease of installation at site.

## 06. Project Installation



Since every installation is customized and unique, installation is done at site based on the type of assembling:

For FMP (Face Mounted on Paper) assembled sheets:

(a) "Dry Laying Plan (Mirror View)" is used for the dry laying of sheets to check the design before installation.

(b) "Installation Plan" is used to ensure proper positioning of the sheets during installation

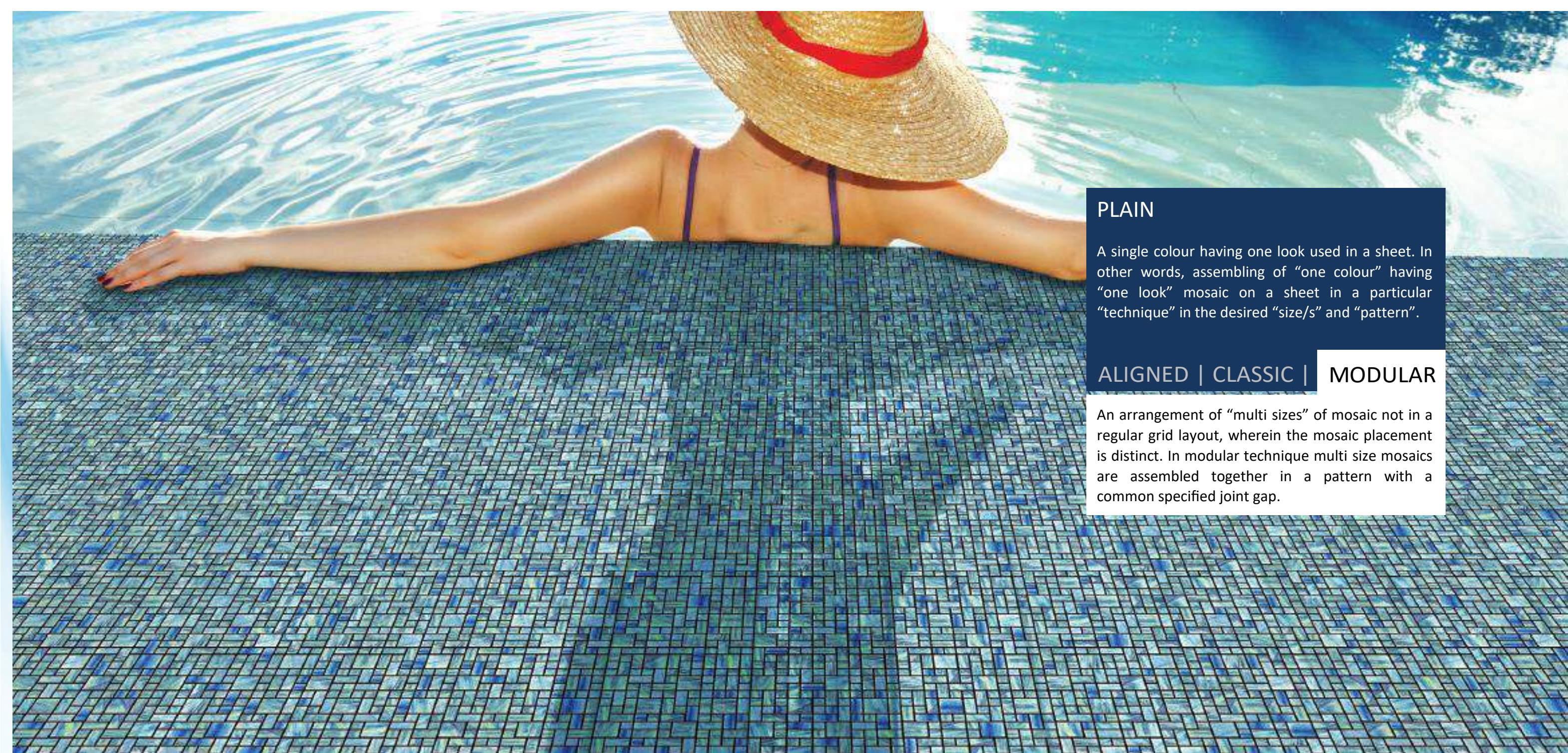
For BML (Back Mounted on Link) assembled sheets:

"Installation Plan" is used for the dry laying of sheets to check the design before installation and as well as for proper positioning of the sheets during installation.

This will ensure accurate installation of the sheets to realize the design and to avoid any mistake during installation.



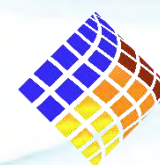
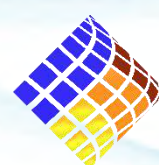
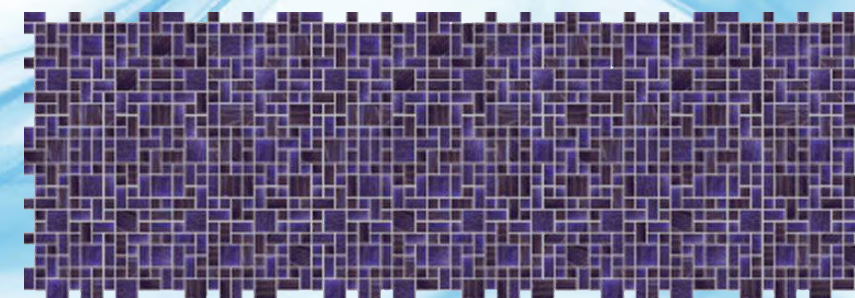
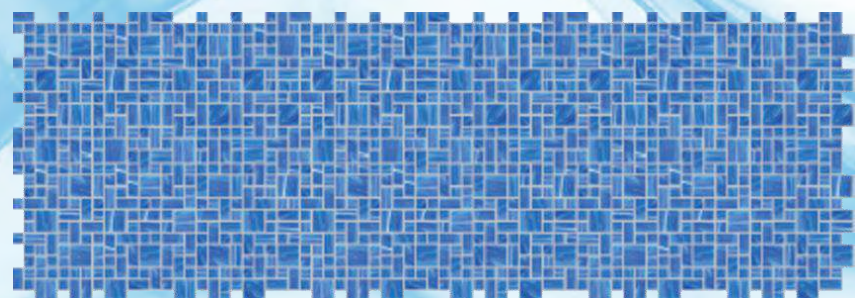





**PLAIN**  
A single colour having one look used in a sheet. In other words, assembling of "one colour" having "one look" mosaic on a sheet in a particular "technique" in the desired "size/s" and "pattern".

**ALIGNED | CLASSIC | MODULAR**

An arrangement of "multi sizes" of mosaic not in a regular grid layout, wherein the mosaic placement is distinct. In modular technique multi size mosaics are assembled together in a pattern with a common specified joint gap.



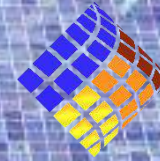
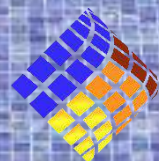


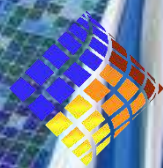
**BLEND**

Two or more colours / looks mixed together in a desired % and placed randomly on a sheet. In other words, assembling of “two or more colours / looks” mosaic randomly placed on a sheet in a particular “technique” in the desired “% of colours”, “size/s” and “pattern”.

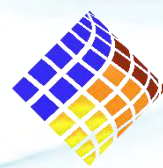
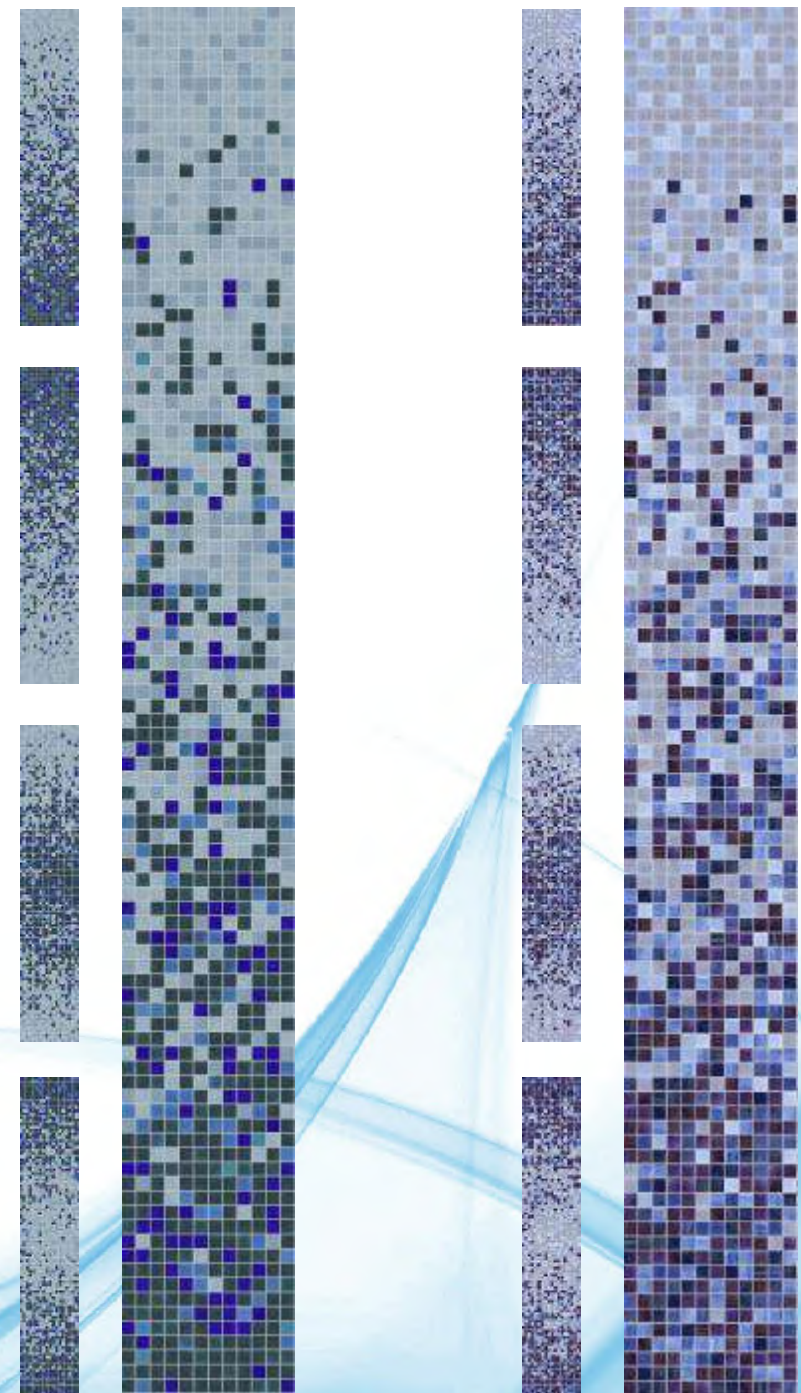
**ALIGNED | CLASSIC | MODULAR**

An arrangement of “unsize” mosaics in a regular grid layout, wherein the mosaic placement is parallel & perpendicular to each other with the specified joint gap.

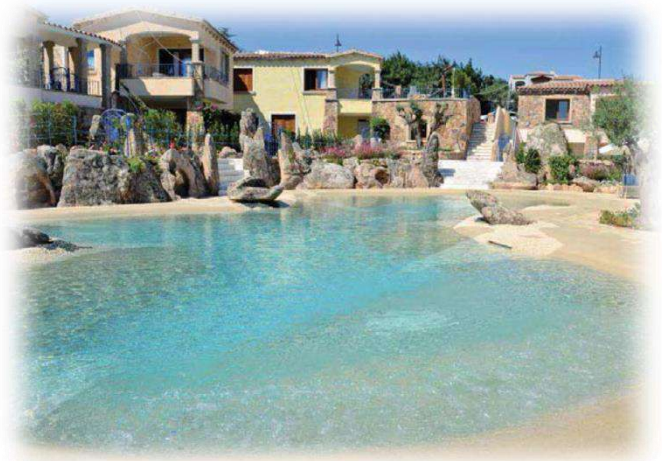




**GRADATION ALIGNED** 2.5 x 2.5 cm



# Aggregate Finishes



Aggregate pool finishes are the new generation of plaster pool surfaces. They consist of white or colored plaster mixed with small pieces of quartz, granite, river stones, or glass beads. Aggregates come in two forms: polished and exposed.

Aggregate finishes are becoming more popular and desirable because they provide a luxurious pool surface that is harder and more resistant to chemicals and staining than plaster alone. They also offer an array of beautiful colors and textures and can be custom blended to create a truly one-of-a-kind pool look.

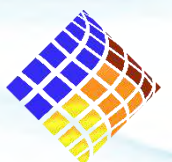
**Polished aggregate** finishes contain finely crushed colored stones, such as quartz, granite, or marble. After the aggregate finish is hand applied with a trowel to the pool shell, it is polished to bring out the stone's luster and create a smooth surface. The flecks of colored quartz or granite give the pool finish a decorative sheen and extend the life of the plaster to 12 to 20 years. Polished aggregate finishes have a timeless beauty that works well with classic pool designs.

**Exposed aggregate** finishes contain tiny river pebbles or glass beads. As with polished aggregate finishes, exposed aggregate finishes are hand applied by trained craftsmen. However, once the application is complete (and while the surface is still wet), the finish is power washed with a mixture of water and muriatic acid to remove the top layer of concrete and expose the colored pebbles or glass beads within.

The exposed aggregates in the plaster add traction to the pool surface and come in various sizes and colors, which allows for a range of textures and color combinations.

**Pebble finishes** have a more rustic look and complement natural surroundings; they are often used for tropical or lagoon-style pool designs.

**Glass bead finishes** catch the sparkle of the sunlight and give the pool surface a three-dimensional effect. A glass bead finish will add beautiful elegance to any pool design but are best for enhancing the visual effect of contemporary or modern pool environments.



# Wet and Fun Pool's

Water Park is the center of “wet and fun”. Water slides, several swimming pools, artificial lakes and rivers are the essentials of water parks. There are lots of different, exciting and amusing activities in the water parks.

A successful water park development requires the success of every single unit in the park. Waves Trading and Contracting with the help of its designs the most extensive range of water slides, wave pools, artificial rivers, several swimming pools and animations. You may be looking for the excitement of your life or you may like smooth rides, Waves Trading and Contracting team is determined to deliver the highest quality and most attractive selection of water park activities for everyone.

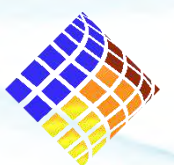


## Surf Pool

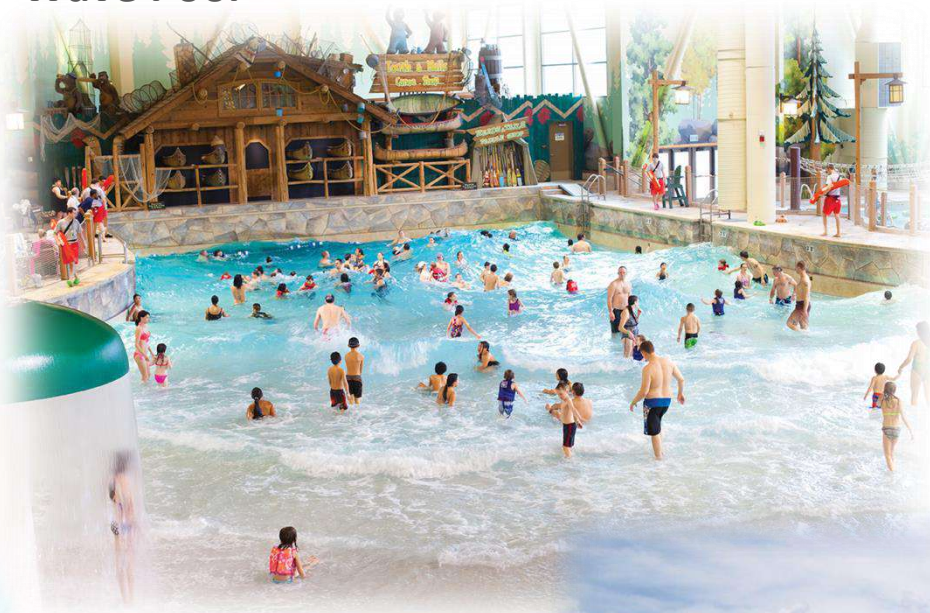


In the industry of amusement, sports were always playing significant role, because of the features they both share, which is adrenaline and excitement. It is a machine making possible the domestication of a wild ocean wave, which you ride for surfing. By the help of **Waves Trading and Contracting**, Surf Pool you will be able to host exciting and full of adrenaline surfing race competitions and surfing master class colorful performances in your very aqua park.

Surf Pool can be used and enjoyed in aqua parks and refers to both customers that have never heard of it before and those professional surfers. The Surf Pool provides sublime experience that is the sport of kings. We offer one of the best Surf Pools, bringing the fun to the max in facility.



## Wave Pool

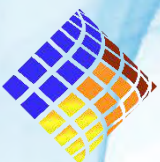


We generate waves that will ensure hours of fun and laughter for your guests by turning the pool into an ocean for swimmers. Wave Pool systems are engineered for durability, ease of operation and maintenance, safety and of course lots of fun.

Nowadays, pools are not only for swimming. They are now the source of joy with different kinds of activities. Wave pool becomes a must feature in every aqua park, designed in accordance with the theme of the park and guest profile is a guarantee for success.

Wave Pool producing different variation of waves in terms of height and its type. For instance if air is given from all chambers the pool produces 80 cm smooth waves, whereas if the system is programmed for random or periodical action of pneumatic valves, it produces waves of different sizes from 80 to 110 cm.

Taking into consideration that customer satisfaction is crucial, we will find solutions which are absolutely economical by means of both fixed cost and efficiency.



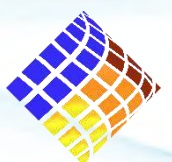
## Splash Wall



Splash wall is an extraordinary product as an outcome of great power of engineering experience and imagination.

When the wave pool is not active, splash wall attached to the back wall of the pool turns the wave pool into an attraction pool instead simply swimming pool. By these means it provides the guests with a cheerful and amusing swimming opportunity with lots of fun and several competitions and attracts guests from the other overcrowded parts of the park.

Being used as a complimentary to the wave pool, splash wall can also be applied to the swimming pools of hotels, aqua parks and the other facilities, turning the simplicity into an amazing entertainment. Splash wall will provide the visitors with an extraordinary amusement by means of its maximum entertainment but minimum cost and quick installation for our customers. Having an ability to be produced in various colors, splash wall becomes one of the brightest and attractive animations of your park, hotel, etc.





## Rafting River



If you want to fight with strong bubbles, waves and if you don't mind falling and getting wet try Rafting or Wave River. We guarantee that you will love it.

Such pools that are designed in accordance with the theming of the park and the guest profile guarantee the success of your park.

Rafting, one of the exciting outdoor sports which now can be enjoyed in aqua parks also. It can be experienced with in various levels of difficulty by adjusting the flow speed and wave patterns in artificial rivers.

Channel length varies from 200 m to thousands of meters. By the help of appropriately located jet stream pumps, speed of the flow can reach up to 4 m/s. The channel, however, can be utilized as a lazy river, in case the wave stations are turned off.

By the help of multiple wave stations, wave forms, interferences, breaks, are created in complete compatibility with a natural river. Wave stations employ control and operate via pneumatic systems.

There are plenty of attractions such as tunnels, rocks and falls which can be formed artificially in the channel. Just imagine and we will construct it setting up additional several pumps and blowers.



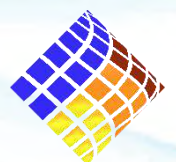
## Lazy River



“The Lazy River” is a fun and a relaxing journey to get around the park with lots of surprises for the lazy days of your holidays. It is a non- traditional park visit by floating leisurely down.

In some large aqua parks, the length of the river reaches up to 750m, where it is great pleasure to have conversation in a relaxed atmosphere in a boat in the middle of the river.

A lazy river is a water ride found in water parks, hotels, resorts, and recreation centers, which usually consists of a shallow (2½ ft. to 3½ ft.) pool that flows similarly to a river. There is generally a slow current, usually just enough to allow guests to gently ride along lying on rafts. There may also be scenic elements added, such as small waterfalls on the edge of the river. Some lead into wave pools, while some just go around in circles.



## Tornado Tube



Tornado Tube a perfect combination of light and water. Tornado Tube is a good choice for Hotels, Malls, Night Clubs, Private Gardens, Terraces, Restaurants and many other places. It magically captures the view of anyone, with its natural effects combined with engineering solution of lightening. It might appear in different tube size and be settled as a bench or as a table or wall tool for exhibition.



## Photo Pool



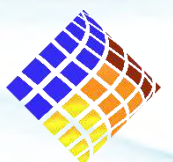
Photo Pool is a visually outstanding project, which can be applied to every field as aqua park, hotel, mall, etc.

Photo Pool can make you feel living both water world and the world that exists outside. The pool gives you taste of pleasure watching how your visitors capture their moments through the windows of the pool forever.

One of the wonders of photography is showing your viewers something that they may never actually get to see in person.

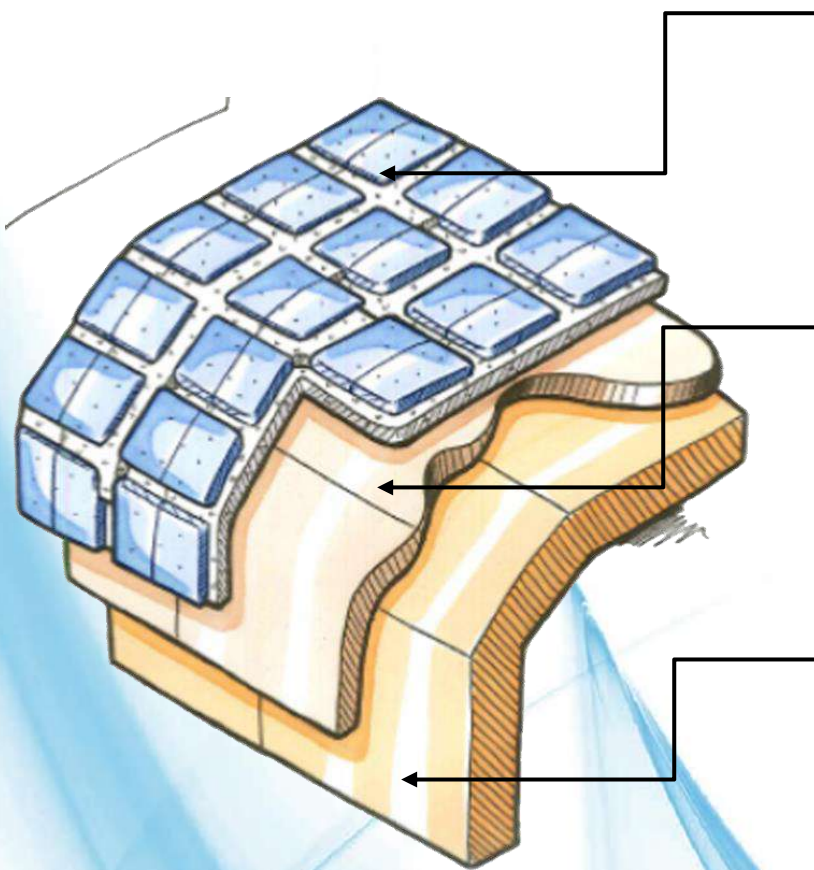
For a brief moment you can transport your viewer to a faraway location, an improbable point of view or even to the bottom of the pool.

Creating images underwater in swimming pools is a fun and attainable photographic specialty that can yield vibrant, stunning photos in relative safety without ever having to brave the ocean depths.



# Fiberglass Composite Pools

## PRE-FORMED COMPOSITE POOL SHELL STRUCTURE



### PORCELAIN CERAMIC MOSAIC TILE:

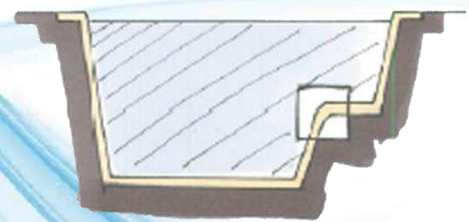
The internal finish is a hand applied mosaic tile finish, using epoxy grout to maximize in-use service life as well as providing the choice of a wide range of colours and styles.

### EPOXY LAMINATE:

The inner layer is a 2 part, reactive epoxy system. This proprietary system cures to form an Epoxy laminate which completely prevents exposure of the GRP to pool water and associated chemicals.

### GRP (Glass Reinforced Plastic):

The GRP outer body consists of spray applied, high performance resins reinforced with woven glass fibres.



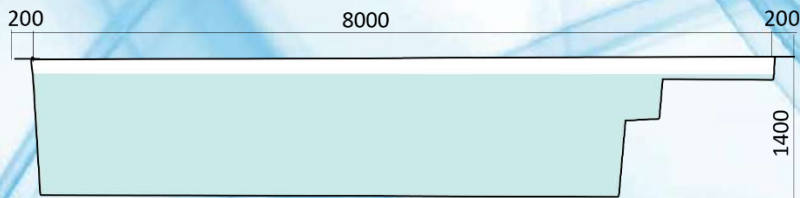
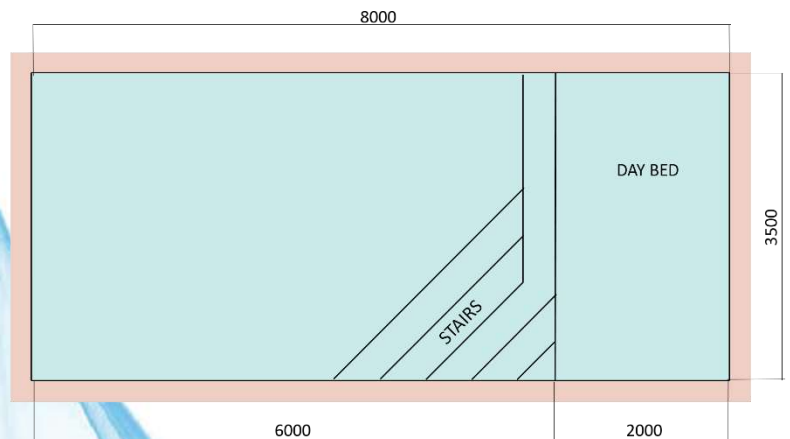
It is the composite structure of the 3 materials working together which provides the unique properties of the Waves-pools Pre-formed pool shell.





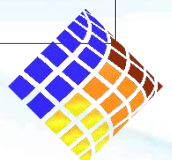
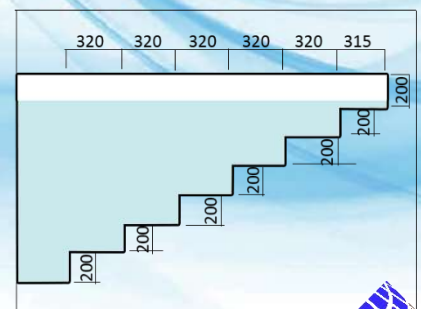
**Features:**

- Choice of standard tile finishes
- Safe, smooth and easy to clean surfaces
- Easy walk-in steps
- Heating and Cooling Options
- Underwater Lighting
- Water Treatment



**Available sizes:**

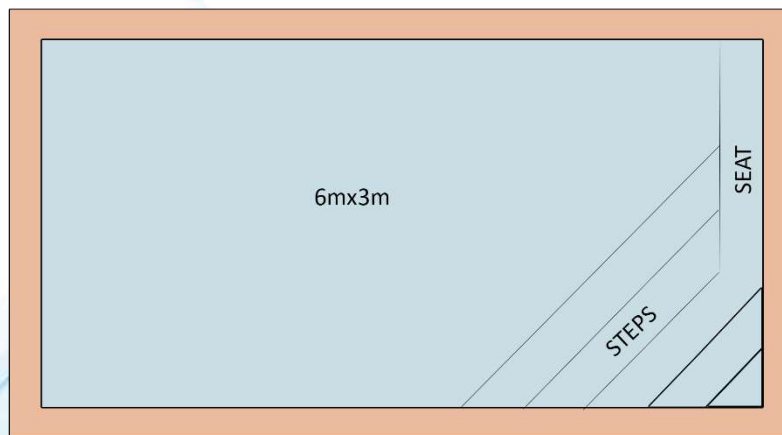
From 8.0m X 3.5m up to 12.0m X 4.5m in increments of 0.5m.



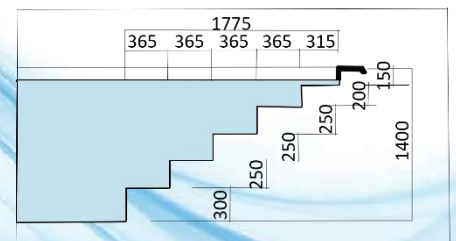
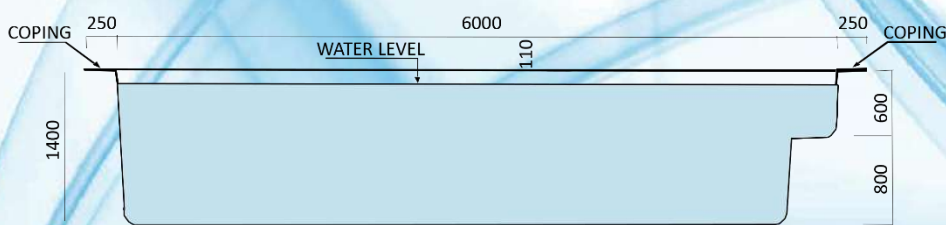


Features:

- Choice of standard tile finishes
- Safe, smooth and easy to clean surfaces
- Easy walk-in steps
- Heating and Cooling Options
- Underwater Lighting
- Water Treatment



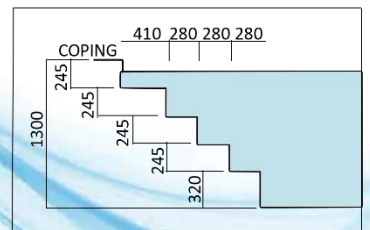
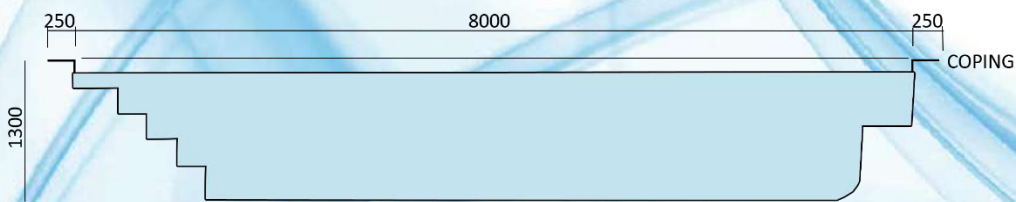
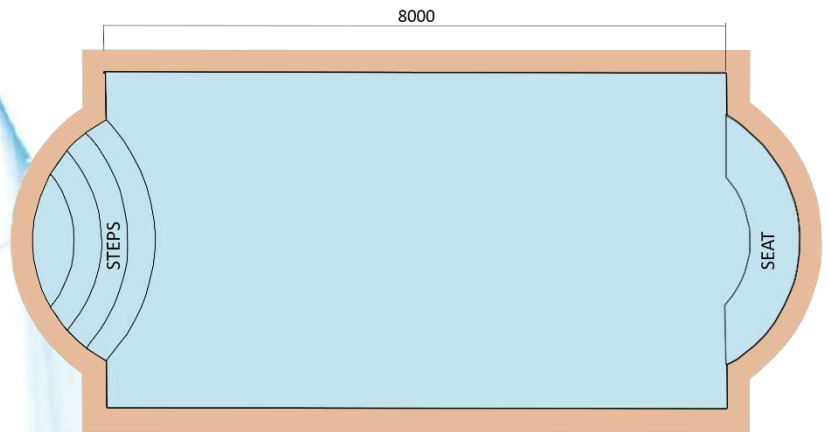
All dimensions are in millimeters





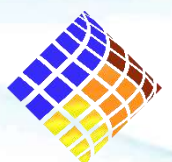
**Features**

- Choice of standard tile finishes
- Safe, smooth and easy to clean surfaces
- Easy walk-in steps
- Heating and cooling options
- Underwater lighting



**Available sizes:**

8.0m X 3.5m and 8.0m X 4.0m

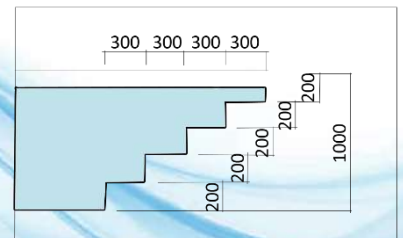
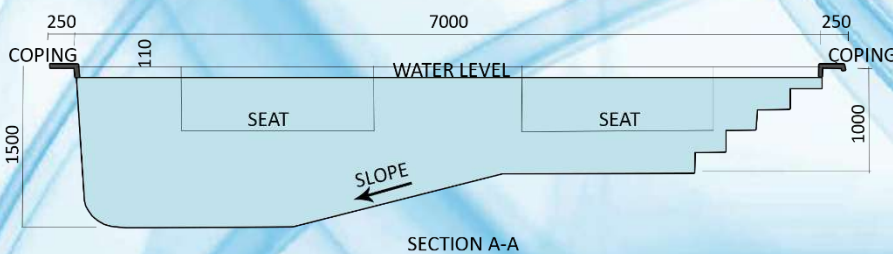
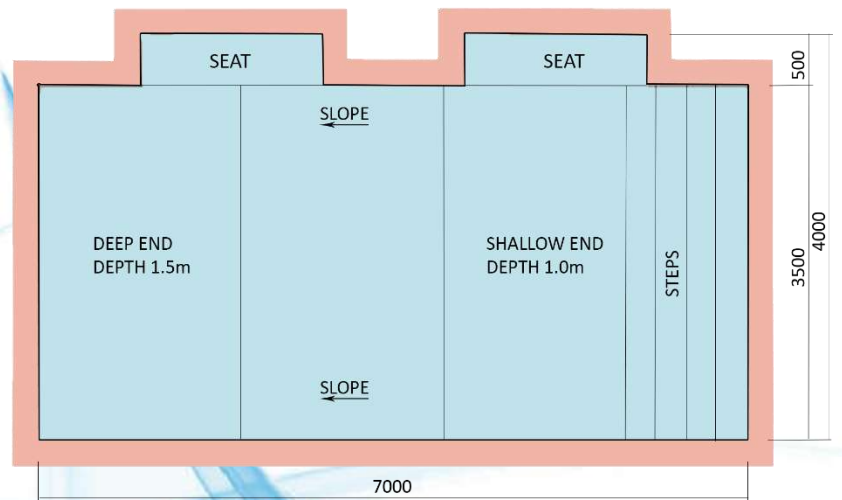






**Features**

- Choice of standard tile finishes
- Safe, smooth and easy to clean surfaces
- Easy walk-in steps
- Heating and cooling options
- Underwater Lighting
- Water Treatment



Available sizes:

From 7.0m X 4.0m up to 12.0m X 4.0m in increments of 1.0m



# Water Feature



# Water Feature Construction

## 1. Setting Out and Survey



A setting out survey involves the marking out of any physical feature that appears on an engineering plan, in its correct position on the ground. These surveys are normally required during the construction of Water Features

## 2. Cleaning and clearing of Grade



Soon after the survey, cleaning and clearing the existing grade will start. All contaminated and waste materials will be removed and disposed of- site. Before filling (if required) commences, the sub- grade will be watered, levelled, compacted and tested.

## 3. Excavation/ Filling/ Compaction



The area to be excavated shall be properly marked and clear before starting the works. As soon as the excavation reaches the required depth/elevation the surface shall be levelled and shall be compacted to required density. Before the compaction starts, it shall make sure that the excavated level is free from standing water or excessive moisture content.

## 4. Stub Plumbing



After the completion of the compaction and testing of the final layer, trenches for laying all the UPVC pipework below the base slab will be excavated and formwork in sacrificial block work constructed for the sumps. All pipework will be laid as per approved drawings and supplier's specifications, pressure tested for a minimum period of 24 hours prior to backfilling and levelling to the required profile.



## 5. Blinding Below the Base Slab



Blinding concrete to the required thickness as approved will be laid on a layer of 1000g polythene sheet over the prepared surface. The blinding concrete will extend a minimum of 200mm beyond the edge of the base slab. This is for the installation of sacrificial block work.

## 6. Formwork



Form work for the outer edge of the base slab and walls will be in the form of hollow blocks laid on cement sand mortar on the blinding concrete. The constructed block work will be left as sacrificial formwork. Areas where both sides of the wall are exposed and / or are restricted, conventional formwork with timber will be used or expamet 'HIRIB' will be tied to the rebar as a permanent in-situ formwork.

## 7. Membrane and Protection Board



For horizontal & vertical waterproofing membrane application, a single layer of modified bituminous membrane shall be laid fully torched on blinding concrete & hollow block respectively. Waterproofing membrane will be protected by concrete screed for horizontal surfaces and protection board for vertical surfaces. Both waterproofing membrane and protection board will be installed by using cylinder fed propane gas torch.

## 8. Joints



Expansion joints (if any) will be provided in the base slab/ and walls. Water stop of approved type and size will be provided above the blinding/formwork. Standard T, L etc. pieces, where required, will be used for joining the water stop.



## 9. Reinforcement



All rebar will be cut, bent and stored according to the relevant code of practice. All rebar will be placed to the required spacing as per design and tied with binding wire. Cover blocks will be used to obtain the required cover to the rebar. Two layers of rebar will be separated with 'chairs' made of 8/10mm rebar. Lapp lengths of 50 times the diameter of the bar will be provided.

## 10. Pool Fittings



Prior to the installation of the water feature fittings all MEP embeds shall be rechecked to ensure compliance with the requirements and final location of the fittings.

## 11. Concrete



An approved mix design shall be used for affecting these works. Joints will be left at approx. 45 deg. angle and scarified with a sharp toothed trowel to ensure proper bonding at the joints. Any rebound / loose material will be completely cleaned and removed. After the concrete has begun to harden it should be protected from quick drying with hessian sheeting and wetted continuously. Curing of the concrete will be continued for a minimum of 7 days from the time of casting.

## 12. Backfilling



After curing of the concrete, cleaning and clearing the surrounds will start. All contaminated and waste materials will be removed and disposed of-site. Before back- filling commences, the sub-grade will be watered, levelled and compacted.



### 13. Installation of the Coping



The coping will be bedded on a site mixed mortar of cement, washed aggregate and mixed with water as required installed approximately 25mm thick as a levelling course. A thin bed of the tile adhesive is installed on the mortar bed while it is still green and the coping/edging is set over this to line and level. All joints in the coping will be grouted.

### 14. Scratch Coat



The surface shall be saturated with water and any standing water shall be removed. A thin layer of cement slurry shall be applied to the surface. Floating and wooden trowelling shall begin when the water sheen has disappeared, and when the mix has stiffened sufficiently to prevent excess fine material from working to the surface.

### 15. Laying of Finishes



Work should be planned to start fixing at the top of the areas to be covered. The precise recommendations of the adhesive manufacturer should be followed concerning the suitability of the background, the mixing procedure, the method of use, the thickness of adhesive and the open time after spreading. It is important to the appearance of the finished that unsightly cut are avoided and that joints are of a uniform width.

