INNOVATIVE FREEFORM PEBBLE POOLS





CONTENTS



by the beginning of the 21st century the principle was firmly established, but the demand was so great that it became clear that rather more than just apool building business was developing!

a completely new product range to the market.

pebblepools as a company had grown into "The Pebble Pool Concept" both in Portugal and throughout Europe.









The Pebble Pools Concept









The Structure

Pebblepools have pioneered the introduction of the Shotcrete method of concrete projection in Europe. Using this system a truly monolithic (jointless) shell is created which is engineered to be self supporting. The Shotcrete system is the best way to reliably and repeatedly do so.



The Interior

Although Pebblepools can offer all traditional finishes such as mosaic and ceramic tile, their name and identity is synonymous with their exclusive PebbleTec® range of finishes. These offer flexibility of design along with durability and strength, in combination creating a rare blend of practicality and beauty.



Design possibilities

Both the Shotcrete process and the PebbleTec® interiors mean that any format of design is possible. Freeform shapes, natural rock pools, classical, razor edge overflow, deck level... every swimming pool concept that exists can be built more reliably and efficiently. Pebblepools has an in-house design facility as part of it's service and they will produce projects in their entirety or work with architects to ensure that all possibilities are explored.



Innovative Technology

As well as importing the best of available technology from around the world, Pebblepools have developed their own systems and features which turn a pool into an object of beauty and a source of pure fun.

Automated and even remote monitoring systems control water quality and comfort while features such as underwater windows, coloured lighting, overflow spas and many more guarantee that home owners get endless enjoyment from their investment.



A detailed history of the evolution of Pebblepools is included on the following page but the philosophy of the company can be summarised quite easily:

- Pebblepools source, own and maintain all their own equipment and machinery - Programming and planning are within their control so delivery dates and performance is reliable.
- They have a large permanent construction staff meaning they do not rely on subcontractors - The specialist machinery and techniques they employ make this essential but this also provides reliability and consistency of performance.
- They are constantly researching and developing ideas and techniques, both to offer new features and improve on existing ones - Active R & D combined with the worldwide network of pool builders to which they belong,

ensure the client is not being given yesterday's

technology in a permanently evolving

environment.

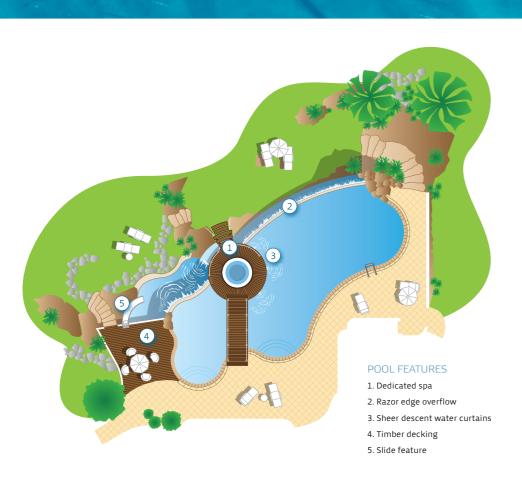
• At the heart of the company is a loyal hardcore of supervisors and administrative staff who are specialists in their own fields and share the common philosophy - There are at present 6 senior managers in the company who have worked collectively for Pebblepools for a total of 60 years.

As a result, Pebblepools can offer a service and product which is second to none in terms of reliability, performance and innovation. This has positioned them at the very top of the swimming pool construction industry.

A testimony to the successful growth of Pebblepools, was the creation and appointment of a sister company in 1998. Pebblepools until that point had been the only European approved builder with whom PebbleTec® from the USA would work. In 1998 PebbleTec® approached Pebblepools and asked them to consider expanding their horizons into the marketing and maintenance of a Europe- wide franchising operation. PebbleTec® were confident that Pebblepools had the skills and corporate strength to train, supply and support other pool builders who were interested in following the there are 15 registered licensees throughout in Portugal.

Now, as Pebblepools celebrate their 20th year of operation, significant evolutions are taking place: the company embraced worldwide renowned projects and lauched a new master licensing programme that will expand Pebblepools to all continents.

model. EuroPebbleTec® was formed and to date Europe who are emulating Pebblepools' success



CREATING THE RIGHT POOL

1. CONSIDERATIONS

THE ARCHITECTURE

The architecture of the house is important when deciding on the style of the pool – classical or freeform.

THE FUNCTIONALITY

Whether a client has a priority to swim all year round, to swim for exercise, if children or non swimmers are a particular consideration, if the villa may be let in the future, etc.

THE LOCATION OF THE POOL

A garden setting is best suited to a natural rock pool, a courtyard to a deck level classic look, etc.

THE GENERAL TOPOGRAPHY

On an open sloping site with a view, a razor edge pool creates a stunning effect. In a closed environment more consideration might be given to water features to create an oasis feel.

THE ENVIRONMENT

A pool can create a serene and tranquil scene or water features can be used provide a background noise. Children's play areas can be included and located to give peaceful and lively zones.

2. THE OPTIONS

TRADITIONAL POOLS (Page 10/11)

Traditional pools can be given a classical look with deep copings and formal water features; patterns and designs can be included; lighting can be used to great effect, white or coloured.

FREEFORM POOLS (Page 12/13)

Freeform shapes surrounded generally by terrace in the classic style - can include wooden decking, bubble seats and beach entries or children's areas but still comply with a fairly traditional villa style.

NATURAL ROCK POOLS (Page 14/15)

These can include beach entries, waterfalls, slides, cascades, grotto areas, warm swim-in zones and much more.

RAZOR EDGE POOLS (Page 16/17)

Razor edge pools can be used to create a combination of environments, for example an upper classic pool cascading into a lower children's paradise of shallow water, cascades and bubble features.

3. YOUR PREFERENCE

THEME OR FEELING

The theme or feeling to the area can also be altered by the use of materials and details in which Pebblepools specialize. Artificial rockwork can be used for the well known jungle style rocks and cascades but can also create a "Roman Ruin" or "Castle" effect when suitable. The list is endless and of course, above all else, the owners personal preferences are paramount. The evolution of the design process is inevitably quite lengthy if the ultimate solution is to be achieved. Pebblepools has a dedicated design department to help architects and guide them through possibilities or, where the pool is a stand alone project, provide a complete in-house design service working directly with the owners or developers.







CLASSIC TRADITIONAL POOLS

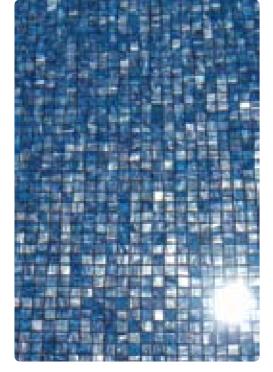
ALTHOUGH THE PEBBLEPOOLS CONCEPT WAS INHERITED FROM AUSTRALIA AND THE UNITED STATES WHERE IT IS SYNONYMOUS WITH EXOTIC NATURAL ROCK POOLS, THE EUROPEAN MARKET, THEY ACKNOWLEDGE, IS DIFFERENT. PEBBLEPOOLS COMPLETE MANY CLASSIC POOL CONSTRUCTIONS EACH YEAR AND HAVE THE SKILLS AND RESOURCES TO WORK WITH MOSAIC AND CERAMIC TILE WHERE PREFERRED.













FREEFORM POOLS

PEBBLEPOOLS CLASSIFY A FREEFORM POOL AS A MOVE AWAY FROM TRADITIONAL RECTANGULAR FORMAT BUT MAINTAINING REGULAR CURVES, OR INTRICATE SHAPES, AND TRADITIONAL FEATURES, GENERALLY SURROUNDED BY TERRACE AND OFTEN LINKED TO THE VILLA. AN IMPORTANT ASPECT OF A FREEFORM POOL IS IT'S NIGHT-TIME ILLUMINATION AS IT IS VERY OFTEN OVERLOOKED FROM DINING AND ENTERTAINMENT AREAS .











NATURAL ROCK POOLS



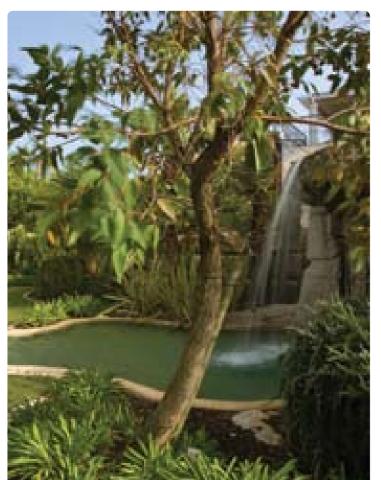


GUARANTEES, THE GENERAL FEEL OF THIS TYPE OF POOL MAKES A

NATURAL STONE INTERIOR AN AUTOMATIC CHOICE .













RAZOR EDGE & COMBINATION POOLS

THE RAZOR EDGE FEATURE HAS BEEN AROUND IN BASIC FORMAT FOR MANY YEARS. THE AESTHETIC RESULT, WHEN VIEWED FROM ABOVE, IS UNIQUE, ESPECIALLY WHERE SLOPING SIGHTS ARE INVOLVED AND SEA OR COUNTRY VIEWS CAN BE USED TO GREAT EFFECT.





THE CONCEPT WAS TAKEN TO A HIGHER LEVEL BY PEBBLEPOOLS IN TWO WAYS:

ENGINEERING SYSTEM

The engineering system which they have developed addresses many issues which are often ignored. It involves a sophisticated level control system and dual filtration. Without these the razor edge effect is often lost when the wall becomes visible, pool maintenance is difficult and on occasions non-return valves fail with catastrophic results. Pebblepools' system guarantees the perfect effect .

ATTENTION TO DETAIL

With traditional razor edge pools the overflow water was stored in an underground tank which was often neglected in terms of maintenance. Pebblepools evolved the idea of creating a lower, feature pool which serves as the compensation tank and at the same time, gives the owners a second pool which they can theme as they wish and makes an ideal play or relaxation area.







DEDICATED & OVERFLOW SPAS

PEBBLEPOOLS SPECIALISE IN SPA CONSTRUCTION OFFERING TWO SOLUTIONS – DEDICATED, PERMANENTLY HOT, BUILT-IN UNITS WITH THEIR OWN FILTRATION, AND CUSTOM BUILT OVERFLOW SPAS WITH HEATING ON DEMAND.





DEDICATED SPAS

These are ideal for regular spa users who want a high level of hydro-massage facility. A polyester or concrete shell is built into a garden or terrace environment. The spa is always hot while owners are in residence and has an independent filtration system.

OVERFLOW SPAS

Overflow spas meanwhile offer a fantastic combination of water feature, cascade and play area which, at the touch of a button converts to a heated spa facility. Warm up can be as fast as 45 minutes, depending on the heating method, and every bathing session effectively uses fresh water.







1. Semi Olympic pool - Quinta da Boavista, Lagos 2. Classic razor edge - Convento dos Pinheiros, Évor 3.Bridge over pool - Vila Sol, Vilamoura 4. Vale del Rei - Lagoa, Algarve

Freeform pools - Hotel Porto Santa Maria, Madei
 Traditional deck level - Quinta da Boavista, Lagos

















1/4. The Lake Resort - Vilamoura, Algarve 2. Porto Bay - Hotel Porto Santa Maria, Madeira 3. Tropical jade PebbleTec® in a tropical setting

AS PORTUGAL'S ONLY REGISTERED PEBBLETEC® LICENSEE, PEBBLEPOOLS

ARE ALSO ABLE TO OFFER A CONTRACT SERVICE TO INDIVIDUALS AND

CORPORATE CLIENTS. WITH PRIVATE CLIENTS THIS OFTEN TAKES THE

FORM OF REFURBISHMENT WORK WHERE AN OLD POOL, PERHAPS

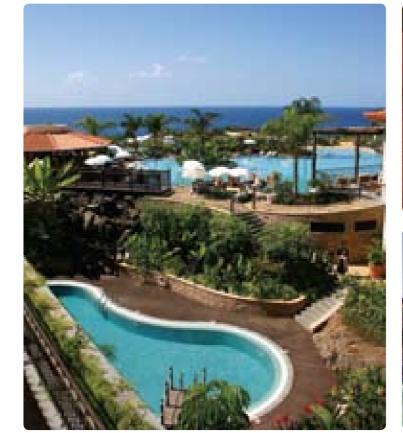
WITH MISSING TILES, CAN BE GIVEN A COMPLETELY NEW LOOK AND

GUARANTEE. WITH CORPORATE CLIENTS THIS CAN OFTEN INVOLVE

WORKING IN COLLABORATION WITH OTHER BUILDERS TO PROVIDE

PEBBLETEC® INSTALLATION INTO A SHELL PROVIDED BY OTHERS OR, ON

OCCASIONS, A "SHOTCRETE" PROJECTION CONCRETE SERVICE.







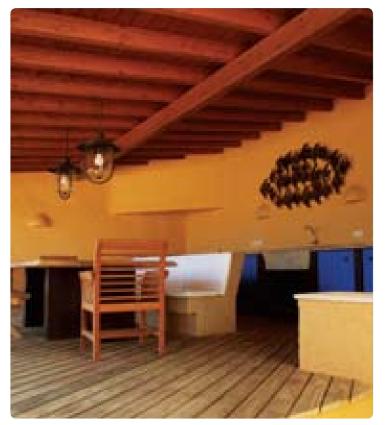


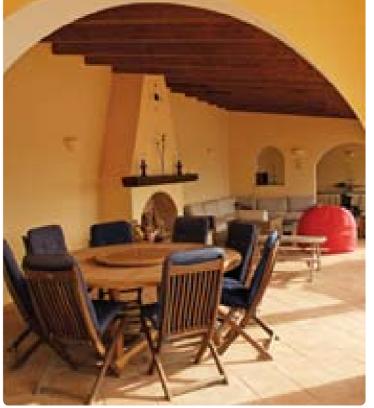


POOL RELATED CIVIL CONSTRUCTION

ALTHOUGH PEBBLEPOOLS DO NOT DILUTE THEIR SPECIALITY SERVICES
BY COMPETING IN THE GENERAL CONSTRUCTION MARKETS, THEY
DO OFTEN BUILD OUTDOOR LIVING AREAS, BARBECUES AND POOL
HOUSES AS PART OF AN OVERALL PROJECT. PART OF THE SERVICE
SUPPLIED BY THEIR IN-HOUSE DESIGN DEPARTMENT INCLUDES STUDIES
AND TECHNICAL DRAWINGS FOR SUBMISSION FOR DOMESTIC AND
COMMERCIAL PROJECTS. THE CIVIL WORKS ARE THEN CARRIED OUT
WITH THE SAME ATTENTION TO DETAIL AND TO THE SAME STANDARD AS
ALL PEBBLEPOOLS CONSTRUCTION WORKS.



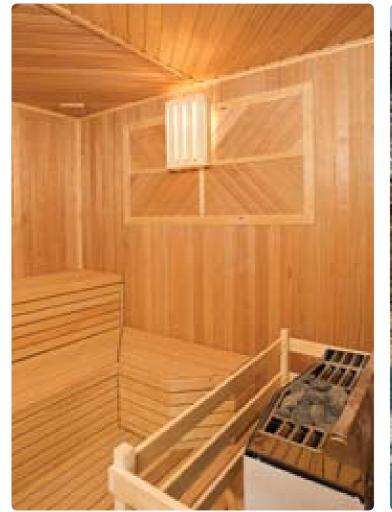


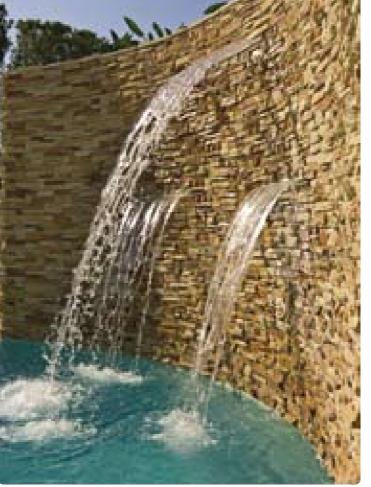




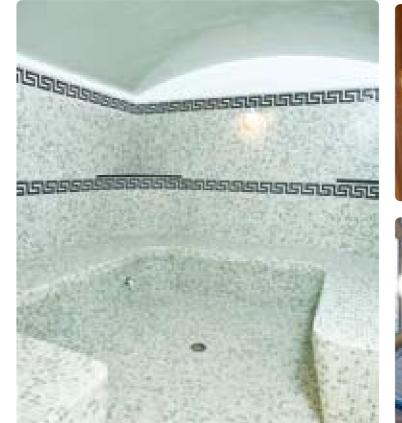
IS INTEGRATED INTO A SINGLE CONTRACT .

FOR BOTH COMMERCIAL AND PRIVATE CLIENTS PEBBLEPOOLS ARE ABLE TO HELP WITH OTHER LEISURE REQUIREMENTS. BESPOKE OR READYMADE SAUNAS, STEAM ROOMS, SPAS AND WATER FEATURES CAN BE DESIGNED AND BUILT AND VERY OFTEN A COMPLETE LEISURE PROJECT (POOL, SPA, STEAM, SAUNA) PACKAGE















THE PROCESS

THE BEST WAY TO GUARANTEE A TRULY MONOLITHIC STRUCTURE ON A REGULAR BASIS IS THROUGH THE USE OF PROJECTED CONCRETE CONSTRUCTION. IN BASIC TERMS, THIS MEANS THAT SOME FORM OF SHUTTER OR MOULD IS PREPARED, INTO WHICH A PROPERLY CALCULATED STEEL CAGE IS FORMED AND OVER THIS A CONCRETE SHELL IS PROJECTED IN ONE CONTINUOUS ACTION. THIS PROCESS REMOVES THE NEED FOR AN INTERNAL SHUTTER AND MEANS THERE IS NO JOINT AROUND THE BASE LINE OF THE POOL.

TYPES OF SHOTCRETE PROJECTION SYSTEMS

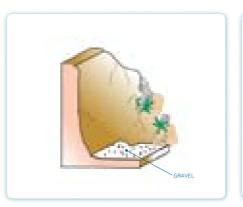
DRY-MIX "GUNITE" PROJECTION

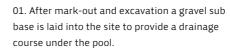
With this system a dry mortar mix is projected by highly compressed air to a nozzle where, as it exits, it is hydrated (wet) when it is mixed with water. It begins to dry as it passes through the air and on impact the air is expelled so a very strong concrete is formed. "Gunite" is very strong and is used in swimming pool construction, boat building and tunnelling. In pool construction the only disadvantage of "Gunite" is the speed of application which often means a pool will take several days to produce and joints are necessary.

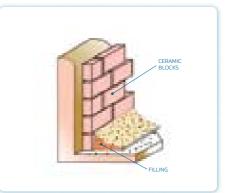
WET MIX "SHOTCRETE" PROJECTION

"Shotcrete" is the worldwide industry standard term for wet mix projected concrete. The concrete is ready mixed (to a special formula) at a concrete plant and delivered in 6-10m³ loads to the construction site. The "shotcrete machine" is a very large hydraulically driven piston pump which pushes the wet mix down the lines to the nozzle where high pressure air is introduced to "shoot" the mix out and against the steel and shuttering. The special mixture can be sprayed, by competent staff, directly onto vertical surfaces and within 20-40 minutes the mixture is ready to be trimmed or "cut" to the exact internal profile required.

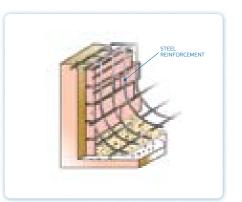
PEBBLEPOOLS CONSTRUCTION PROCESS



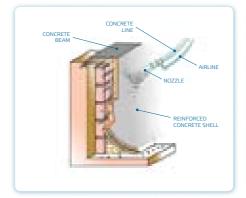




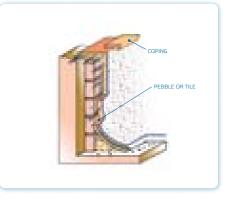
02. A sacrificial brick shutter is built to define the profile of the pool.



03. The steel cage is installed including a structural ring beam at surface level.



04. After fitting skimmers, returns, lights etc the projection concrete process begins.



05. Once cured the area is backfilled, terrace, if appropriate, is built, coping laid and PebbleTec® or tile applied.



06. Filling with water enhances the natural tones of the interior and the pool comes to life.

THE "SHOTCRETE" SPRAYING AND PEBBLETEC® APPLICATION





PEBBLETEC® INTERIORS

PEBBLEPOOLS HOLD THE PORTUGUESE EXCLUSIVE LICENSE AS OFFICIAL PEBBLETEC® APPLICATORS. PEBBLETEC® IS THE BEST AVAILABLE MATERIAL AND SYSTEM FOR PRODUCING AN EXPOSED NATURAL STONE SWIMMING POOL INTERIOR.

THE PROCESS

From a beach in New Zealand, pebbles are excavated, graded, sterilised and shipped around the world using methods fully licensed by the New Zealand government and approved by environmental agencies. Even the packaging is biodegradable and heat sealed and the whole process avoids all pollutant bi-products and harmful emissions.

On site the pebbles are mixed with a cement compound and sprayed onto the shell to give a beautiful natural looking interior finish. The selection of colours combines with natural oxides in the cement and additives, such as ceramic chip or coloured glass, to produce a unique variety of water tones.

There are no corners, no joints and no sharp edges. The result:

- A pool with a natural & pleasing texture
- Extreme durability and reliability
- Slip-resistant surface
- Easy to clean and maintain
- No need for re-grouting
- No loose tiles
- No osmosis or de-lamination
- No re-painting or renovation work

WHY PEBBLETEC®?

The difference between PebbleTec® and traditional glass mosaic tile is plain to see but several other systems exist which emulate the exposed aggregate look. The important point though is that none of these use quartz stone as the base material - PebbleTec® does. Quartz stone is hard (geologically speaking it is 97% of the way towards being a diamond). It is very difficult therefore to grind or cut it back to cover up mistakes in the application so it is critical that the installation crew are experienced, competent and in possession of the correct tools.

- Only registered PebbleTec® applicators can offer these products.
- The material is not pre-bagged (with cement) so has no shelf life and the customers are guaranteed of cement quality.
- The base of quartz stone gives a far superior surface in terms of durability and longevity than any alternative using calcium based stone.

THE PEBBLETEC® RANGE OF INTERIORS













The original 3mm size. This produces a pleasantly textured surface which is slip resistant and provides a natural appearance and can be used to great effect for beach entries and in combination with natural rock. A smaller pebble of 1mm which is polished with a diamond disc after application to produce a flatter, smoother surface for more traditional pools. A tile band is used at water level to produce a classical look

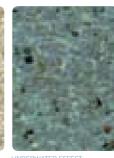
New for 2008 is the latest finish (introduced in the States 2 years ago). PebbleFina® is a mix of very fine quartz aggregate, white cement and additives to prevent crazing and add strength, for the ultimate flat finish.

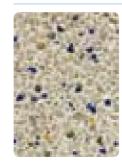
EUROPEBBLETEC® COLOURS

PARADISE BLUE

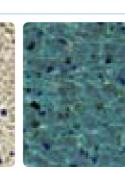
DEEP SEA GREEN







CARIBBEAN BLUE





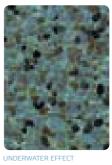


SANDY BEACH













SAMPLES ARE SHOWN AT ACTUAL SIZE. ACTUAL FINISH AND WATER COLOUR MAY DIFFER FROM DIGITALLY REPRODUCED SAMPLES ON THIS BROCHURE

SPECIALITY DETAILS

OVER THE YEARS PEBBLEPOOLS HAVE BUILT INTO THEIR POOLS MANY DETAILS AND ITEMS WHICH NEED SPECIALITY KNOWLEDGE AND EXPERTISE. SOME EXAMPLES OF THESE ARE SHOWN HERE. PLEASE CONTACT PEBBLEPOOLS FOR MORE DETAILS ON ANY OF THESE OR ANY TYPE OF POOL AND LEISURE BASED QUESTIONS.



BUBBLE SEATS & VERTICAL AIR JETS

A simple addition to a pool resting bench or built into the floor of the pool, these provide hours of fun for children of all ages. They are operated by a poolside air button which can be programmed as on-off or on-timer off.



HEATING AND COVERS

Pebblepools install all forms of automatic covers and also offer the revolutionary Heat\$avr® liquid cover system, ideal for pools where a cover is not desirable. Heating with all forms, (gas, oil, heat pump, solar) are available from Pebblepools who have qualified installers on their retained staff.



SLIDES

These can be supplied as a ready made unit but often Pebblepools will make use of a natural gradient to build these into a piece of garden architecture. They can be lined with fiberglass or polished Pebblefina® for a very natural look.



ARTIFICIAL ROCKWORK FEATURES

Often used to create a theme or atmosphere, artificial rockwork is also used to good effect to disguise service building, pump houses etc or retaining walls and level changes.



UNDERWATER WINDOWS

Underwater windows are quite often a good solution for providing natural light to an under terrace space, which can then be utilized, effectively gaining extra space for a gym, office or perhaps a sauna and relaxation area.



TREATMENT SYSTEMS

Pebblepools offer Salt Water chlorination, pH and chlorine auto-dosing, DIN UV disinfection systems, Ionisation systems etc. A remote monitoring service exists for commercial pools to log levels and raise alarms as necessary.



AUTOMATED CONTROL SYSTEMS

Pebblepools approve and use Aqualink® and Dinotec® intelligent control systems. These give the owner ultimate control over their pool to set or override temperatures, running times, spa settings, lighting, etc from one single LED screen or over the internet. Garden lights and other functions can be incorporated.



IN-FLOOR CLEANING

The PV3 automatic vacuum system is becoming more and more popular and consists of a matrix of pop-up valves across the floor of the pool. These rise in zones and push the debris towards the main drain where it is drawn from the pool and filtered out. This system also provides very good chemical and thermal distribution so increasing the health of the water naturally.



HYBRID & SPECIALITY HEATING SYSTEMS

Pebblepools have developed their own 'Hot Tank' system which economically and reliably can produce guaranteed swimming temperatures at any time for an uncovered pool. The system utilizes two bodies of water and a bespoke software system to mix the pool water to the desired temperature at the correct time. The owner simply selects the time and temperatures desired and massive overnight heat (energy) losses are avoided.

OVER THE PAST 10 YEARS PRIVATE AND COMMERCIAL POOLS HAVE BEEN BUILT THROUGHOUT PORTUGAL AND MANY OTHER EUROPEAN LOCATIONS. A TRIBUTE TO THE PERFORMANCE, COMMITMENT AND PROFESSIONALISM OF THE COMPANY IS THE NUMBER OF CORPORATE AND KEY ACCOUNT CUSTOMERS THEY ENJOY.



Alma Verde; Alto Club; Balaia Village; Câmara Municipal de Castelo Branco; Convento dos Espinheiros (Évora); Costa da Guia (Lisbon); Dunas Douradas; Hanbury Portugal; Hilton Resorts (Vilamoura); La Gomera (Tenerife, Spain); Lakeside Village; Meridien Hotel; Oásis Parque; Ocean Village (Gibraltar); Oceânico Developments; Parque da Floresta; Porta Ventura (Spain); Porto Santo Maria (Madeira); Quinta da Boavista; Quinta da Palmyra (at Vila Sol, Vilamoura); Quinta da Vígia (Alentejo); Reserva da Luz; Rocha Brava; Sorbas Canyons (Spain); The Emerson Group; Vale de Lobo; Vila Vita.

CLIENT'S COMMENTS

"We selected Pebblepools for the Ocean Village Project because of their unique Pebble finish, their design expertise and their attention to detail. I believe the stunning designs of the Ocean Village garden and pool project, from the penthouse pools to the children's pools speak for themselves. Pebblepools' creative input can be seen in the final designs and their craftsmanship and professionalism in the finished product."

Neil Martin - Ocean Village

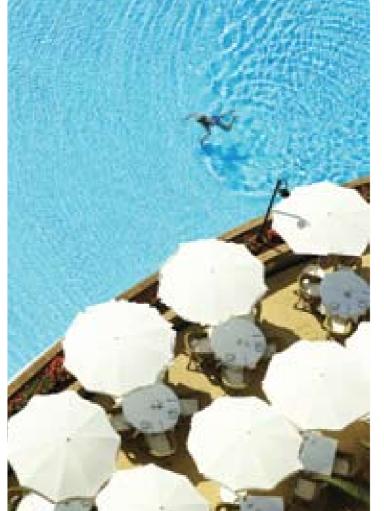
"We use Pebblepools because their pools are completely freeform, their one-time projection system eliminates problems with seams and their service and reliability are second to none." John Tranmer - Alma Verde

"Our policy at Boavista is to form partnership type relationships with specialist leaders in the market place. This can be no better illustrated than in our highly successful association with Pebble Pools as our exclusive pool and leisure consultants and contractors over the past six years."

Philip Pope - Boavista Golf Resort

"We are so pleased that we used Pebblepools and shall have no hesitation in recommending your company."

Keith & June Russell - Residential Client

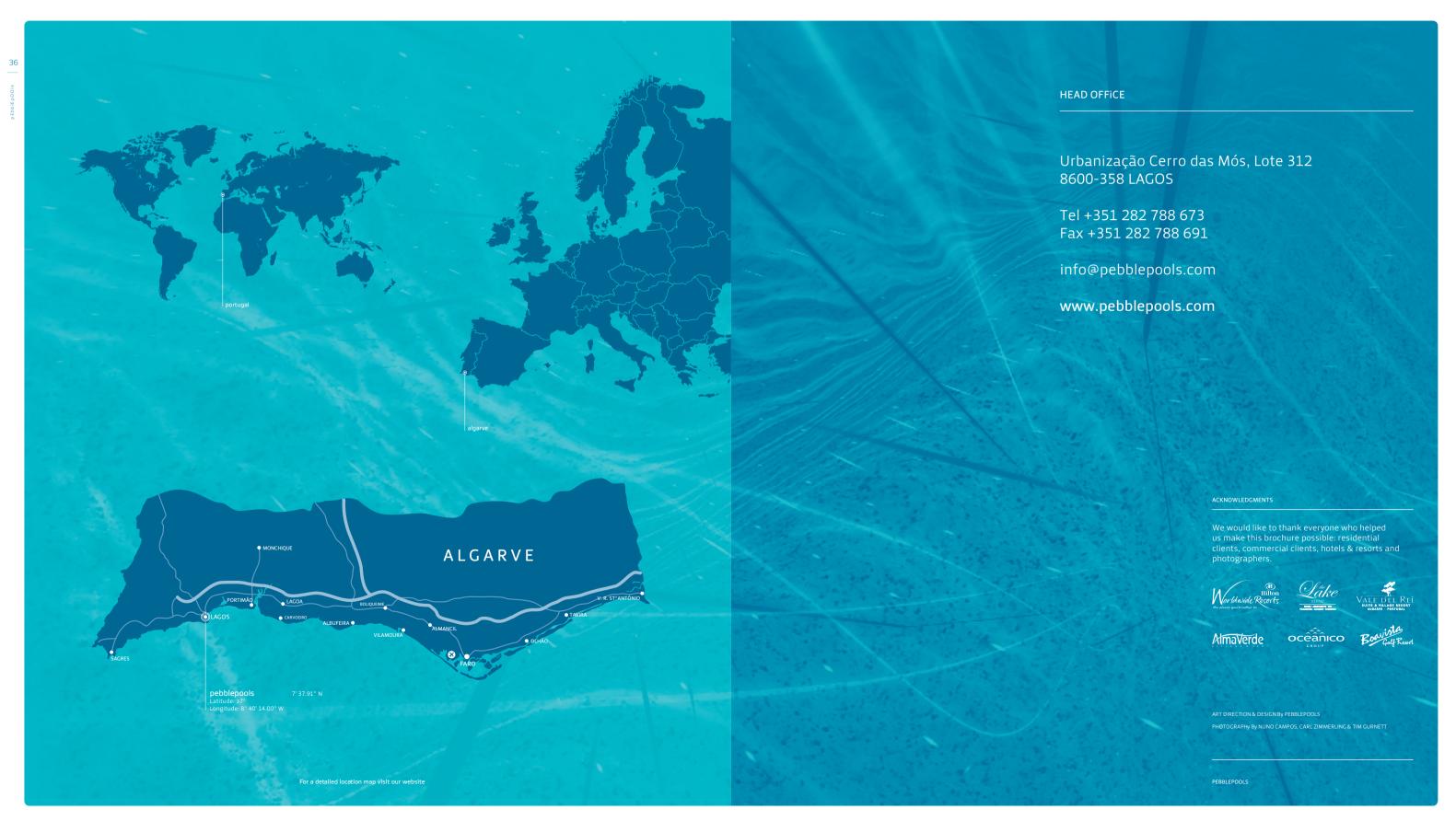






LOCATION AND CONTACTS





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