

# The ARConWall Pool Structural System

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# The ARConWall Pool Structural System

## Drawbacks to conventional pools

- ❑ Fibreglass monocoque pools
- ❑ Modular panel pool kits with a PVC liner
- ❑ Concrete block pool walls with a PVC liner
- ❑ Reinforced concrete pools



# The ARConWall Pool Structural System

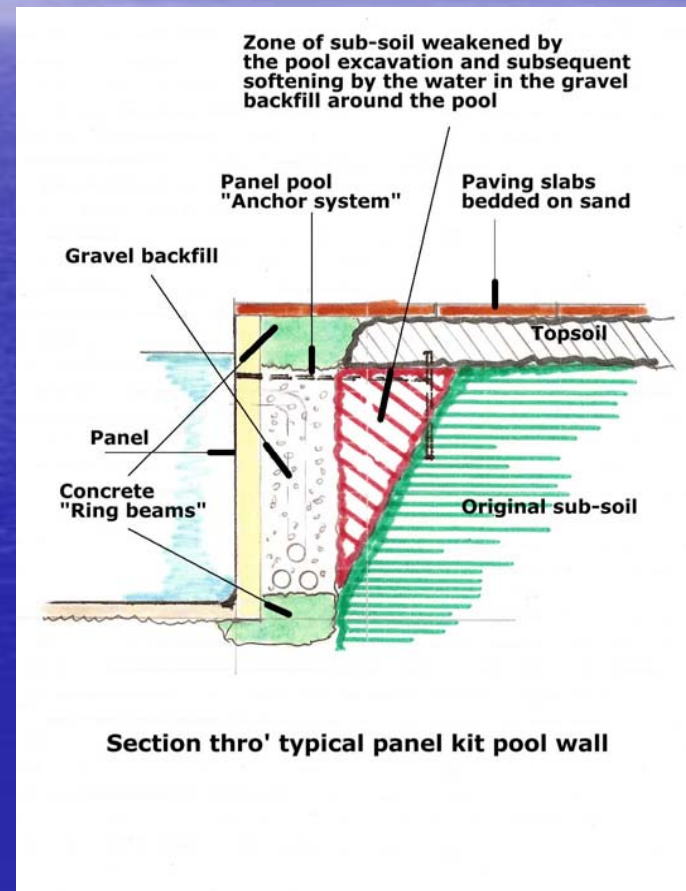
## Ground conditions during installation

- Rock
- Dense sand and gravel
- Loose sand and gravel
- Fill
- Clay
- Water table

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## Ground conditions after installation

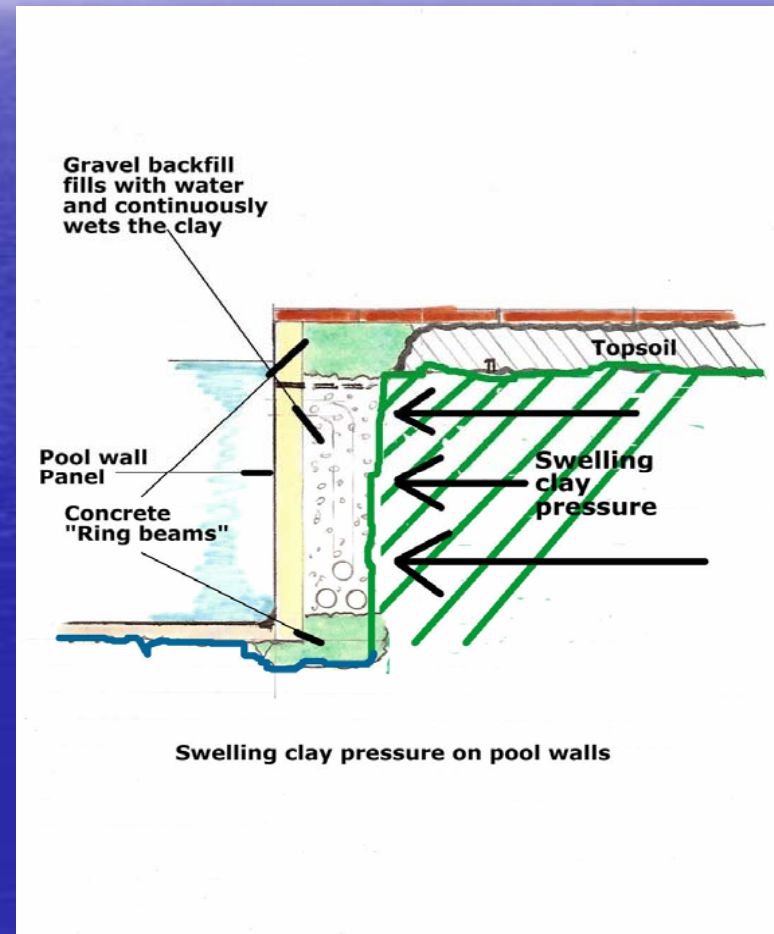
- ❑ Gravel backfill gets waterlogged during winter
- ❑ Clay, fill or loose sand gets softened / washed into loose gravel backfill increasing the load on the pool walls
- ❑ The pressures on the pool wall are equalised when pool is full
- ❑ The increased soil and water pressures can cause wall deflection or collapse if pool needs to be emptied
- ❑ Paving slabs settle



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## Long term ground conditions in clay

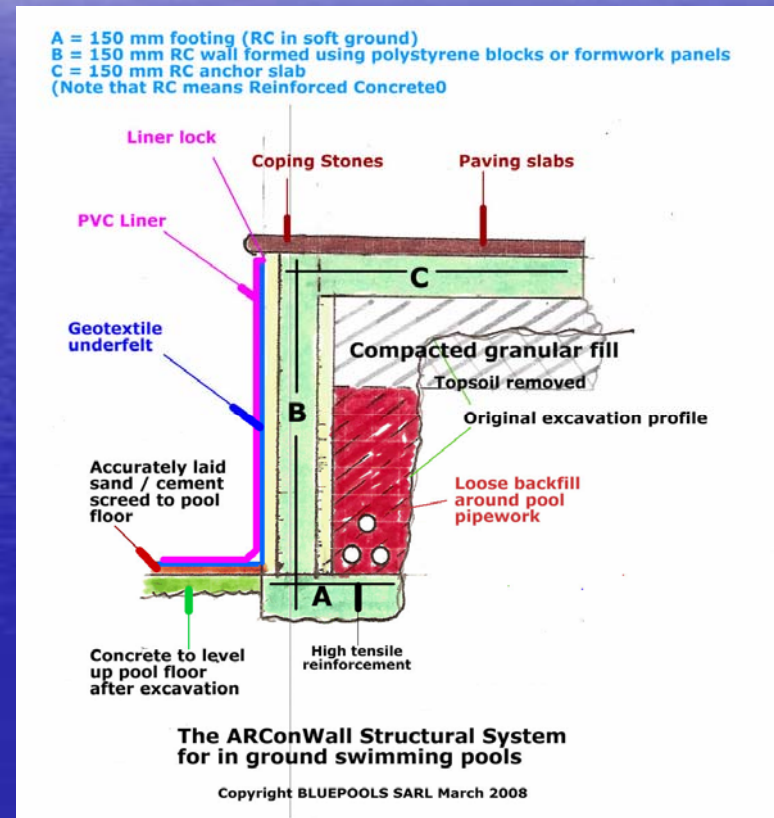
- During the excavation for the pool horizontal release of earth pressure occurs
- The excavation for the pool results in a permanent "large hole" in the clay soil that tends to be full of water like a pond
- The clay then takes in water and then swells imposing pressure on the pool walls



# The ARConWall Pool Structural System

## The "ARConWall" solution

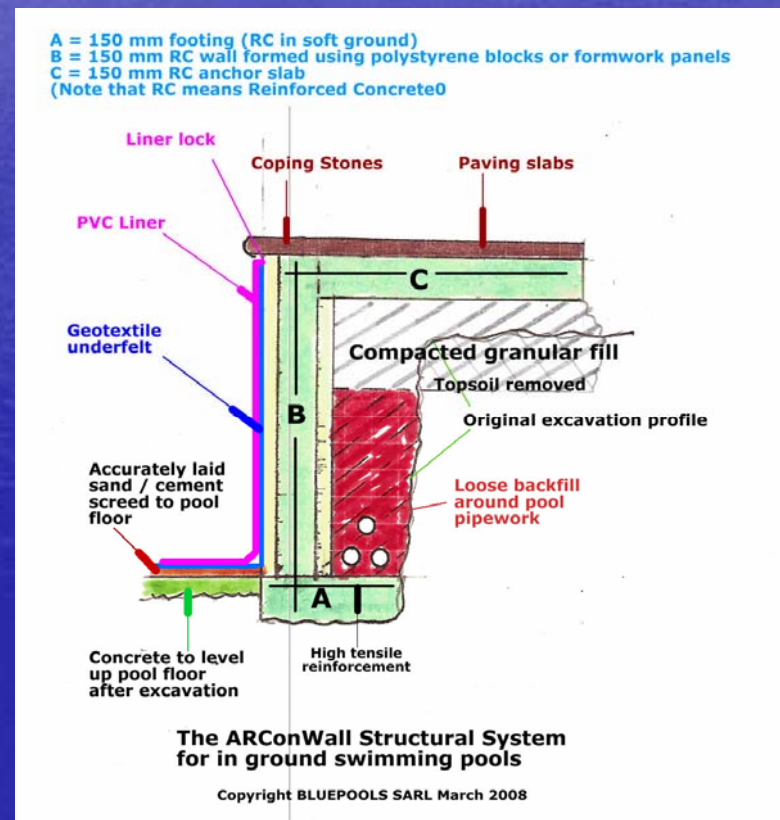
- ❑ The system had to be developed for France because about 2 pools in 3 are installed in clay soils
- ❑ Relies on PVC liner technology
- ❑ Very robust "Built for Life" structure
- ❑ Very economic and easy to construct



# The ARConWall Pool Structural System

## How does the "ARConWall" solution work?

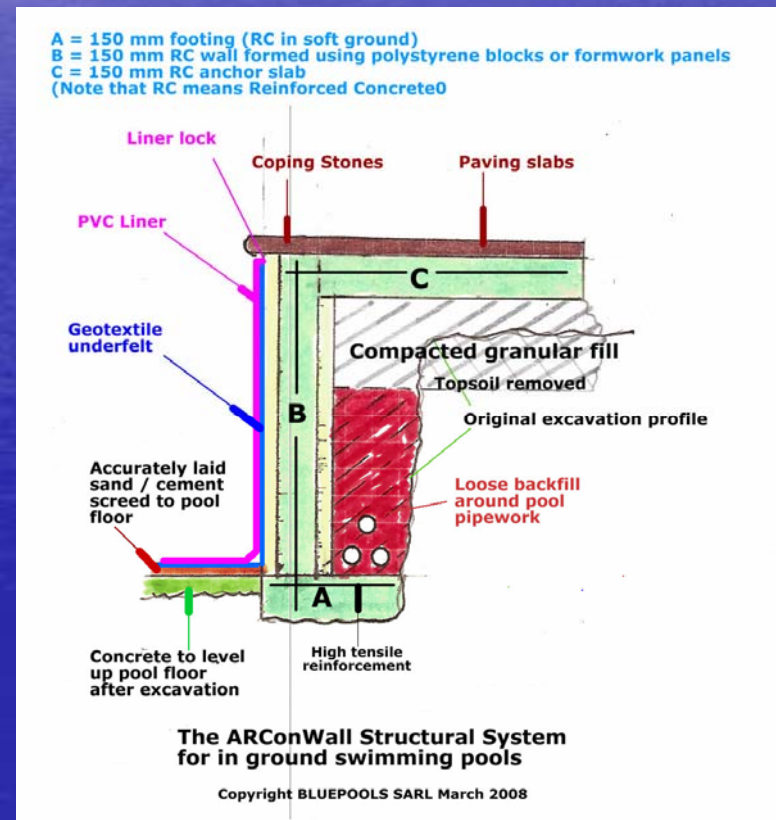
- Strength is not dependent on the rigid box approach of obsolete technology pools
- Strength provided by the very robust U on its side structure
- Reinforced concrete pool base slab is not required as in RC or gunnite pools



# The ARConWall Pool Structural System

## What are the "ARConWall" advantages?

- ❑ Simple foundation "A"
- ❑ Easy to build polystyrene blocks or polystyrene panel reinforced concrete walls "B"
- ❑ Reinforced concrete anchor slabs "C" rigidly hold the top of the pool wall in position under ice loading, swelling clay load or when pool is empty by acting as a horizontal beam
- ❑ Anchor slabs "C" support the paving slabs around the pool by bridging across weak soil
- ❑ Does not require very high strength concrete and highly skilled labour





# The ARConWall Pool Structural System

## Why PVC pool liners are the best!!

- ❑ They are guaranteed for 10 years and can last a lot longer than that
- ❑ They do not leak!!!!!!!!!!!!
- ❑ If they do leak – the leak is easy to find and repair
- ❑ The pool structure has to be stiff and strong – not water proof!
- ❑ All the other pool liners need to be glued or bonded to the pool structure – any structural movement from temperature or load results in cracks and leaks – the PVC liner just stretches and accepts such movement
- ❑ Heavy duty liner material and other techniques can be used for pools with a heavy swimming load
- ❑ The only drawback is that the liner flexibility is provided by a plasticiser that can diffuse out of the material over time.
- ❑ Because of the diffusion a liner can get so brittle that it will crack and leak – but the colours will have faded by then as well

# The ARConWall Pool Structural System

## Could you build an "ARConWall" pool?

- ❑ The answer is yes of course you could!!!
- ❑ The approximate total cost of the building materials, the pipework and the pump / filtration system for one of these pools in Europe is as follows
  - 8 x 4 metres – 4,000 to 5000 euros )
  - 10 x 5 metres – 6,000 to 7,500 euros ) – Lower costs for concrete blocks
  - 12 x 6 metres – 8,500 to 10,000 euros)
- ❑ The cost of the materials in the US and elsewhere may be less because of the high cost of building materials in Europe
- ❑ All that you will need is our comprehensive fully illustrated instruction manual that will be available on May 1<sup>st</sup> 2008
- ❑ Treat yourself to a luxury "Built for Life "ARConWall" pool for only \$10,000

# The ARConWall Pool Structural System

## Video instruction manuals

- ❑ Videos on DVD with comprehensive instructions on how to build one of these pools are being prepared at the moment and will be ready by 1<sup>st</sup> May 2008
- ❑ If you want the Videos just fill in the form at the top of the website, type in your country where it says nearest town and "Videos" in the pool size box – If you apply now you will receive a 25% discount.

# The ARConWall Pool Structural System

## Pool installation enquiries

- ❑ We still have installation slots free in the Jonzac area in the Autumn of 2008.
- ❑ This is the first public notice of our plans to open a new Bluepools depot near Montpellier (34) in the Autumn that will install ARConWall pools in Pyreneese Orientales (66), Aude (11), Herault (34) and Gard (30)
- ❑ We will be visiting Clients and providing proposals in these areas from May – so please apply now to arrange a site visit.

# The ARConWall Pool Structural System

## Pool kits

- ❑ If your property is in France we can provide a pool kit
- ❑ Kits with the Bluepools advice service that is offered in France
  - 8 x 4 metres – 6,950 euros )
  - 10 x 5 metres – 7,950 euros ) – Costs include polystyrene blocks
  - 12 x 6 metres – 10,995 euros )
- ❑ We deliver the kits, inspect the ground, advise on problems and the installation of the pump / filtration system and provide membership of the Bluepools help desk – for further information please look at the website page on this
- ❑ Just fill in the form at the top of each website page and type in the size and the words “Pool kit” in the pool size box

# The ARConWall Pool Structural System

## Summary

- ❑ So if you want your pool to enhance the value of your property get an "ARConWall Built for Life" pool from Bluepools.
- ❑ If you are within a couple of hours of Jonzac or Montpellier fill in an application form on the Bluepools.com website and we will quickly be in touch to organise a site visit and provide a detailed pool installation proposal
- ❑ If you are further away than a couple of hours from Jonzac or Montpellier then you will need to work out how you might install one of our pool kits – get a quote from your builder or talk to your friends!
- ❑ If you are based outside France then fill in the application form on the website to get a discount on the pool installation instruction videos that will be on sale from May 1<sup>st</sup> 2008