POLYPROPYLENE POOLS

DESCRIPTION AND INSTALLATION POSSIBILITIES

Pools are made of polypropylene (PP) stabilized against the interaction of UV radiation. This material is harmless in terms of health and hygiene. The construction of pool made of plastics was designed for 20-year exploitation and was manufactured based on a computer software Nexis 32 with the use of completed parts method. Pool minimal thickness of walls and bottom is 6mm and considering the steps it is 8mm and the susptensive ribbing 12mm. The plastic elements are joined by welding by professional welders in accordance with DVS directives, the pipe cables are glued. The equipment within the delivery is produced by acknowledged manufacturers – companies ASTRAL and Vagner and the assembly is executed in compliance with their instructions. The pools are designed for outside assembly. They are mounted on a reinforced foundation plate of 150-200mm in thickness and around them a concrete coating must be executed according to the indications defined in this document.

1. Bath tub made of plastics - POLYPROPYLENE – 6mm
2. Overflow channel
3. Overflow channel grid – width 200mm
4. Perpendicular support – POLYPROPYLENE 15mm
5. Wall insulation – XPS styrodur 30mm
6. Bottom insulation – XPS styrodur 30mm
7. Concrete foundation of thickness 150mm minimal
8. Concrete coating
9. Concrete coating reinforcement
10. Area
### Compact 1 with skimmer

<table>
<thead>
<tr>
<th>Outside in mm</th>
<th>Inside in mm</th>
<th>Depth in m</th>
</tr>
</thead>
<tbody>
<tr>
<td>6000 x 2800</td>
<td>6300 x 3100</td>
<td>1.3, 1.5</td>
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<tr>
<td>7000 x 2800</td>
<td>7300 x 3100</td>
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<td>8000 x 3300</td>
<td>8300 x 3600</td>
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<tr>
<td>9000 x 3300</td>
<td>9300 x 3600</td>
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### Compact 2 with skimmer

<table>
<thead>
<tr>
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<tbody>
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Any shape and location of the stairs is possible.
### Compact 1 with overflow pipe

**Oval**

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<td>9350 x 3600</td>
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Any shape and location of the stairs is possible.

### Compact 2 with overflow pipe

**R 600mm**

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**R 90°**
### Standard with skimmer

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<tr>
<td>8000 x 4000</td>
<td>8300 x 4300</td>
<td>1.3</td>
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*Any shape and location of the stairs is possible*

### Standard with overflow pipe

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</tr>
<tr>
<td>8000 x 4000</td>
<td>8400 x 4400</td>
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</tr>
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*Any shape and location of the stairs is possible*
Any shapes and dimensions pools

Material used for pool production allows for manufacturing pools of shapes and dimensions which meet one's individual requirements. There is also possibility of shaping any forms considering equipping with additional watery accessories such as airy or watery massages, possibility of stream strokes installation, fountains, and many others.
The products in our offer are of the top quality and produced out of the best available materials and technology based on long-lasting experience. Pools are made of the top quality polyester resins of laminates covered with resistant cover of colcol (1). This cover is resistant to low and high temperatures, it has a barrier protecting against the harmful influence of UV radiation, it is resistant to chemicals, it enables the pool to be kept clean, it is also characterized with amazing colour endurance. The pool can also be insulated with spray foam which prevents from the water heat loss (2).

The pool advantages are the shapes attractiveness and variety, high aesthetics and integral construction guaranteeing 100% impermeability, they are cheaper and faster at assembly than the concrete ones, they reduce the long term construction works costs. Polyester pools are mounted in an excavation on the prior sand bed priming or concrete plate (5). In order to protect the pool against the groundwater, the draining is also recommended. Pools without thermal insulation should be isolated from the ground with a hard polystyrene or styrodur plates (4). For proper setting of the laminate pool it is required to fill in the side plains of the pool with a gravel-cement mixture (3).

What is left is to mind the surrounding of the pool by building a terrace and we can enjoy our own pool.
Imperial I
6,06 x 2,75 x 1,22 m
6,00 x 3,00 x 1,40 m
6,50 x 3,00 x 1,40 m
7,20 x 2,80 x 1,45 m
7,10 x 3,10 x 1,55 m
7,70 x 3,10 x 1,55 m
8,25 x 3,10 x 1,55 m

Imperial II
8,50 x 3,70 x 1,55 m
9,40 x 3,30 x 1,55 m
9,50 x 3,70 x 1,55 m
10,50 x 3,70 x 1,55 m

Neo I
5,20 x 2,55 x 1,10 m
6,20 x 3,00 x 1,40 m

Neo II
7,20 x 3,10 x 1,55 m
Stones are used for the décor of the rims as well as the beach around the pool. Perfectly made, anti-slippery stones also perform the decorative function. They are available in various colours and texture. Rom stones are a wonderful décor of the pool edges, adding the elegance. Stones stunningly match the water. Additionally, they help to bounce the waves.

**Athen**

**Florida**

**Helsinki**

**Kiruna**

**Roma**

**Sparta**

**Torino**
Natural terrace panes

Natural terrace panes are a valuable material used by designers and manufacturers in pool production. The wood class used outside Bangkirai, Massaranduba, Cumaru, Merbau, Tatajuba or Ipe are characterized with strong resistance to biologic damage in changeable atmospheric conditions.

Wood concise structure gives the beautiful and smooth surface whereas a varied number of colours from sunny yellow to mahogany brown and red shape the unique climate of the surroundings.

Composite terrace panes

They are the mixture of top quality materials – 60% bamboo fibers, 30% HDPE polymers after recycling and the remaining part is created from gluing and fungicidal materials. It is the contents of the composite panes that comes their first advantage. Using the bamboo fibers makes the pane surface resemble natural wood in touching while polymers and other materials influence its durability and make it fully resistsible to atmospheric conditions. This effect was achieved thanks to the fact that the above mixture of materials was pressed under a high pressure and in high temperature. Composite panes do not moisten, do not lose colours in rainy weather, no snow, rain nor hail is able to damage their structure nor change their aesthetics. It also has to be mentioned that composite panes do not require any preservation actions. They need not be painted, impregnated, varnished. A terrace performed in composite system will be characterized with functionality and aesthetics for years.
Structure

Roofing structures are made of special profiles to ensure the structure’s inflexibility to the external factors activities. System solutions allow for forming of the individual solutions fitting in the necessary functions. All our roofing structures are made according to the customer’s required ‘dimensions.’

The roofing program includes low, high and mixed structures enabling the possibility of adjusting to any necessary function. Long-span roofing can additionally be made of reinforcing panels able to carry much heavier loads. The segments are equipped with special catches preventing it from being jerked off in windy weather.

Standard equipment also includes the system of stoppers regulating the proper placement of roofing segments. As a standard, each our roofing also has the so-called extension of slides of the length of one segment – so that it would allow for moving the roofing outside the pool area.

Driving system

Constructed in such manner that anybody could easily and effortlessly cover or uncover the pool. Flat slides with integrated covers hiding the screws mounting them to the floor of the dimension adjusted to the proper model and roofing width. They are also safe for a child walking bare foot.

Apart from the roofing with double slides we also have roofing with a single slide (the slide is on one side of the roofing only) or a system without slides. Double, prefabricated sliding rolls which are mounted in down aluminium sliding profiles regulating the roofing segments excellently influence the segments precision and move easiness.

The sliding rolls are equipped with wind locks preventing a segment from being jerked by heavy winds. The wheels move on stainless bearings, which ensures a long-lasting and infallible functionality.

Filling

In our roofing we use the following filling of roofing structures:

- colourless chamber polycarbonate of thickness 10mm with UV filter
- colourful chamber polycarbonate and multi-chamber polycarbonate
- cast polycarbonate of type glass.
COLUMN ROOFING

Transparent cover is mounted on columns at the height of 2.4m. This roofing allows for keeping the daily warmed water temperature at night. The cover is lifted electrically. On the top of each column a lamp can be installed.

CRISTALBALL ROOFING

Roofing CristalBall is an innovative, practical and functional solution. Pool can be used whenever you want – the electric pump must be switched on so that you can enjoy the ready roofing in a few minutes. Copula can be placed on the water surface so that it prevents the water temperature drop.
A shutter is the most elegant, the most effective and the most durable pool cover. The profiles for shutter are produced exclusively for the purpose of swimming pools. It reduces the water evaporation and through it the heat loss is reduced and energy saving to 90% is ensured. It happens thanks to the cellular build where the air makes a perfect insulation. The profiles connected create a stiff cover on the water surface preventing thus from falling into the pool. The profiles are tightly closed with the plugs installed at the ends.

Installation companies are welcomed to cooperate and we ensure professional and complex service and favourable conditions for such cooperation.
The drawing shows a pool with a skimmer. See the installed skimmer on the left. Filter pump aspirates water and pushes it through the pool filter.

Water flows through hard PCW pipes and flows back into the pool through inlet nozzles (see the drawing right side).

On the left side in the bottom the bottom outflow is shown which is connected to skimmer and filter pump.

In such case water is filtered from 1/3 surface and 2/3 bottom. Next to skimmer a water level regulator was installed.

It controls the water level and automatically pours water until proper level.

The automatics of dosing regulates pH value, minds pool water disinfection.

An important element are devices for warming water. All devices are controlled by filter controller.

The controller has a temperature sensor, timer, various switches responsible for turning on/off particular devices.

An important part is also pool cover which successfully reduces the pool heat losses and helps to warm the pool with sunlight.

In the drawing the cover is the shutter of hard PCW which prevents children from falling into water and also keeps the pool warmth. On the right side you can see a device for watery massage.

It is placed permanently in the pool wall. There are also other massage devices placed at the pool edge which can be mounted easily any time convenient. The picture shows also two reflectors.

Lamp electrical cables through connector boxes go to 12V transformer.

Pipes and connectors of hard gray PCW should be used with pool water installation.

Pipes are mounted with ball valves. The bottom show a robot working.

It cleans pool bottom and walls.

Some models additionally have the possibility of operating by a remote controller.
Lights

A pool increase the value of a house and a garden. A pool gives relaxation through sports activities in water, it is refreshing, fit and relaxing. One of the most important item of so called additional accessories is underwater reflectors. He who resigns from them, makes a mistake. A pool in a room can not be lighted from the top as the water table makes it uneasy by reflecting light on the walls. With open pools the reflectors are even more required. A dark water surface is not tempting.

Pool warming

heat pumps

heat convertors

electrical water heaters

solar collectors
Massage equipment

It is an excellent attraction providing the possibility of relaxing and curing water massage of a bath with waves and air bubble, swimming against the water current (used for swimming practice) with a pump.

Cleaning & Accessories

- chemicals
- testers
- dosing automates
- automatic vacuum cleaners
- manual & half-automate vacuum
- accessories
Our SPA tubs have been designed with a view to long-term functioning at minimum energy consumption and maintaining constant readiness to use. Our SPA is adapted to use in all external conditions at any time of day and ambient temperature.

Colors

- Alpine White
- Crème
- Ice Gray
- Desert
- Tuscan Sun
- Mocha
- Monterey Gray
- Teak

Grades
POOL FOILS

In no way can other reinforced foil be seen as a competitive product to the foil of Alkorplan. Other foils have their own markets, their own advantages and disadvantages. They can even be more tempting in terms of price and ease to install. However, durability is the key issue. In our opinion, in 3-4 years you will change the lining in your pool to Alkorplan. Therefore, it is worth considering now and choose Alkorplan lining of higher durability especially when the durable qualities of other linings is pretty doubtful.

WOODEN POOLS

Wooden pools are ecological and durable. They can be mounted as overground or completely or partly grounded. Painting and oiling allows for setting them to other elements of garden equipment. The assembly is not complicated and it can be done personally.
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