

Case Study Swimming Pool

Project completed by:
H₂O Construct Gekiere bvba
www.h2o-construct.eu
Experience in the sector: +20 years
Experience with Paneltim®: 15 years



Picture: End result of other project as garden architecture for this project still in process.

Project

Building a swimming pool that is both lightweight and UV-protected

Production time

2 weeks

Dimensions

51' x 14' x 5' (L x W x D)

Challenge

To transport in one piece and fit through a narrow passageway for installation

Product

Paneltim® Multipower

Material

Polypropylene copolymer
(CoPP or PPC)

Thickness

2" nom.

Panel size

102.4" x 39.4"

To produce a swimming pool that was easy to transport, H₂O Construct chose to work with Paneltim® Multipower panels because they are lightweight, UV stabilized, easy to clean, and resistant to most chemicals typically used in swimming pools.

Good insulation values

Paneltim® plastic panels have better insulation values than most solid construction materials (Paneltim® Multipower 2": $R = [2.875 \text{ sq ft K/W}]$ (DIN 52612-1)). This is a big advantage in comparison with more traditional materials in building pools, as no extra insulation is needed with Paneltim® panels.

Easy processing

Using butt welding techniques, almost every desired size can be produced quickly and easily with Paneltim® panels. To achieve 3D shapes hot air and extrusion welding makes it easy to create seats, benches, stairs, and housing for automatic safety covers. Many of these pools can be installed in just one week.

Lightweight

As this pool had to go through a small passageway, the light weight of Paneltim® panels was very important for this project. The construction was strong and light enough to enter vertically using smaller equipment.

Alternative to other materials

H₂O uses Paneltim® instead of other materials such as concrete and liner, thin solid sheets, or fiberglass.

Important installation topics

- Always place the swimming pool on a reinforced concrete floor, calculated to hold the water pressure below.
- While backfilling with stabilizing sand, fill the pool with water proportionally to balance the wall pressure.



Welding of Paneltim® Panels



Entry through small passageway



  
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Paneltim is a manufacturer and distributor of PP plastic panels. Neither the installer nor Paneltim can be held responsible for the results of other projects. We are happy to put you in touch with experts in this field.
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