

Case Study Swimming Pool

Project of
H₂O Construct Gekiere bvba (BE)
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 medium sized swimming pool that is both lightweight and UV-protected.

Location

Langemark - Belgium

Production time

2 weeks

Dimensions

15.60 m x 4.30 m x 1.50 m
(L x W x D)

Challenge

Transport in one piece and fit through a narrow passageway for installation.

Product

Paneltim® Multipower

Material

PP Copo

Thickness

50 mm

Size

2,600 mm x 1,000 mm

To produce a swimming pool that was easy to transport, H₂O Construct chose to work with Paneltim® Multipower panels because they were lightweight, UV stabilised, easy to clean and because the panels are (in case of normal use) resistant to most chemicals used in swimming pools.

Good insulation values

Paneltim® plastic panels have good insulation values (Paneltim® Multipower 50 mm: $R = [0.267 \text{ m}^2\text{K/W}]$ (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 and extrusion welding, almost every desired size can be produced quickly and easily with Paneltim® panels. Because of the stiffness of the panels it is also easy to create seats, stairs and a cover for the roller deck. A pool can be installed in just one week.

Light weight

As the 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 the passage vertically.

Alternative

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

Do's and don'ts

Always place the swimming pool on a reinforced concrete floor, calculated to hold the water pressure below. Foresee stabilizing sand next to the swimming pool which is calculated to withstand the water pressure on the sides.



Welding of Paneltim® Panels



Entry through small passageway

