



FRP constructions: Stair case in a swimming pool

Problem	Swimming pools are often confronted with severe corrosion problems. Most of all in these areas were splashes of water get into contact with steel parts. In order to access a giant slide, a steel stair case was built several years ago and became insecure due to corrosion for public access.
Solution	In order to deal with this corrosion problem Fiber Reinforced Plastic beams and covered gratings were used. They are the ideal material to withstand this chlorine environment. They do not rust and are not attacked by bacteria's. They are easy to clean and the stair treads are foreseen with an adequate grit surface to prevent slipping.
Size	4 stairs with each 10 steps, handrails on both sides with vertical tubes as spacer.
Material	U 200/80/8 L60/60/8 Handrail system containing: square box 60*60*4.5 and 51*51*3.25, tube 30*24 and ergonomic handrail Vikugrate covered grating.
Year of construction	beginning of 2009.
Benefit	FRP materials are the ideal solution for your corrosion problems. Beside the light weight the materials offer low maintenance costs since they are colored in mass. They do not need painting. It has no plastic deformation and is thermally stable. It is safe in use thanks to the grit surface.