

# AQUATERR

CASE STUDY 001.

## WIMBLEDON, LONDON

Architect: Michael Dimarco Architects  
Developer: The London Swimming Pool Company  
Completed: July 2004

### Contract Summary

The design, manufacture, installation and commissioning of a 12 metre long by 5 metre wide moveable floor system for a new private swimming pool development.

### Brief

The brief was to design a moveable floor system which firstly caters for the diverse levels of swimmers that will be using the pool (variable depths) and secondly, to provide a platform for dry activities such as dancing, music concerts and other such social events.

### Design

The standard floor loading on a commercial application is 40-48kg/m<sup>2</sup>. On this project, Aquaterr incorporated a loading of 100kg/m<sup>2</sup> to cater for static weight when the floor is above water level. The steelwork structure was designed by the marine structural engineering specialists, BAE Systems. The increased loading on the floor was taken into account by BAE Systems when selecting the size and thickness of the longitudinal and traverse steel members and when quantifying the volume of buoyancy. The size of the hydraulics and the anchoring equipment also had to be suitably sized to cater for this increased loading.

### Safety

Aquaterr introduced locking pins as an additional safety feature. Stainless Steel pins are positioned around the pool perimeter, operated using air cushioned pneumatic cylinders cast under the surround. Using the touch-screen remote control panel, these pins can be locked and unlocked, creating a stabilizing factor when the floor is used as a dry platform.

**For more information on Aquaterr Pool Technology moveable floor systems, please contact us on 0161 905 2302 or email your enquiry to [info@aquaterr.co.uk](mailto:info@aquaterr.co.uk)**

# AQUA TERR

POOL TECHNOLOGY

MOVEABLE FLOORS AND BOOMS

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