

AQUATERR

CASE STUDY 004.

CHELTENHAM RECREATION CENTRE

Architect: Limbrick Limited
Main Contractor: Balfour Beatty Construction Limited
Completed: November 2003

Contract Summary

The installation of a 12.5m long by 1.5m wide Submersible Boom within a new swimming pool development.

Functionality

The submersible boom is located in the main pool. When submerged the pool is 33m in length with a gradual slope from 1.3m to 2.5m water depth. This arrangement facilitates recreational swimming and additional activities such as water polo competitions. With the boom in the raised position, the geometry of the swimming alters to a 25m pool for short course competitions.

Product Description

The structure of the submersible boom was manufactured from grade 316L stainless steel. The boom was then covered with high-density polyethylene panels, secured to the structure using stainless steel fixings. The panels also contained competition lane markings. The boom is housed in a pre-formed concrete channel in the base of the pool and in its lowest position is level with the pool base. Slide rails within the pool wall locate and control the movement which is created by water displacement. In the raised position the boom is held against restraining stops which are part of the slide rail arrangement.

The stainless steel structure was pre-fabricated and shipped to location in suitable sized sections. When in location, the structure was bolted together, panel finished and the pneumatic equipment was incorporated.

Ancillaries/Safety Features

The boom was designed to facilitate short course championships. The following equipment was therefore incorporated: removable handrails, removable starting blocks, removable pool access ladders, lane rope connectors, timing pad connectors and a finger-grip arrangement across the width of the pool. The boom also includes retractable steps on both ends which, when locked in position on the pool surround, act as an additional safety feature and also provide easier access for swimmers and competition officials

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POOL TECHNOLOGY

MOVEABLE FLOORS AND BOOMS

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