

Project Profile- Loose Fill- Aquatics Centre, London 2012



Project Details

The London Aquatics Centre is an indoor facility with a 50m competition pool, a 25m competition diving pool, a 50m warm-up pool and a 'dry' warm-up area for divers. It will be one of the main venues of the London 2012 Summer Olympics and the London 2012 Summer Paralympics. Designed by architect Zaha Hadid, the centre is located in the Olympic Park at Stratford in east London. With its distinctive architecture and wave-like curved roof, it will be the first venue visitors see upon entering the Olympic Park. During the Games it will have a capacity of 17,500. After the Games the Aquatics Centre will be transformed into a facility for the local community, clubs and schools, as well as elite swimmers. The two temporary wings will be removed, leaving 2,500 seats. For major competitions this capacity can be increased to 3,500.

Sustainability, being a major consideration of the Olympic project, and Lytag[®] being a wholly manufactured aggregate, made from a waste stream, meant it was accepted well by the environmental management and fitted well as a supply source.

Lytag[®] LWA Geo fill[®] civil engineering bulk fill L3 was used as backfill for the pool tanks. It was used for its low density and to reduce the horizontal load. The changeable ground water table levels also needed to be considered and Geo fill[®] civil engineering bulk fill also has excellent hydraulic conductivity.

Info

Project: Aquatics Centre,
London 2012

Date: 2008 - 2011

Client: Olympic Delivery
Authority

Architect: Zaha Hadid
Architects

Structural Engineer: ARUP

Main Contractor: Balfour
Beatty

