



Bridges – Eton College Rowing Centre, Dorney



Project details:

After London's successful bid to host the 2012 Olympic Games, Eton Dorney Lake was chosen to host the rowing and canoe sprint events.

Completed in 2006, the lake is the first rowing course in the UK built to Olympic standards. Eaton College commissioned the 2.2km long 140m wide, eight lane parallel sheet of water. The course is set in a 400-acre park with a nature conservation area with water for the lake coming from a natural water table – which was a factor in the site selection. In 2006, it hosted the Rowing World Championships, with high praise from both competitors and spectators.

The venue's existing facilities and infrastructure have now been enhanced to provide improved facilities for athlete warm-up and Canoe Sprint events during the Games. These works included the installation of a new 50m-span 282-tonne bridge for vehicular and pedestrian traffic over a widened entrance to the return lake.

Lyttag® LWA (4/14mm) was used for the concrete mix to produce a LC45/50 mix with a target density of 1750kg/m³ (Mcc 360, w/c 0.45) and help reduce the overall weight of the bridge. Being a wholly manufactured aggregate, made from a waste stream, also assisted the Sustainable Development Strategy.

The enhancements were awarded "Highly Commended" by the Institute of Civil Engineers Thames Valley Branch as the project has shown "great technical merit".

Project:

Eton College Rowing Centre,
Dorney Lake, Dorney

Date:

2009 - 2010

Client:

Olympic Delivery Authority

Architect:

Niall McLaughlin Architects

Structural Engineer:

Royal Haskoning

Main Contractor:

Morrison Construction
Limited

Readymix supplier:

London Concrete

