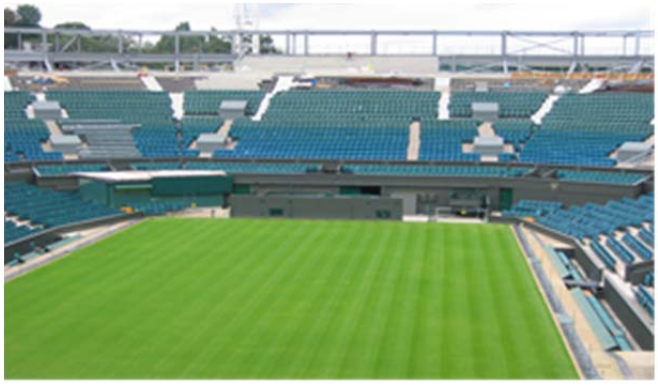
LYTAG lightweight aggregate

Project profile www.lytag.net

Structural – Wimbledon Centre Court Redevelopment



Project details:

The scheme comprised of a 5 storey redevelopment of the Wimbledon Centre Court Arena which gained a new modern retractable roof of translucent construction. The Centre Court's capacity was increased from 13,800 spectators to 15,000 by the addition of six rows of seating to the upper tier on three (east, north and west) sides.
The seating is anchored to precast Lytag® lightweight aggregate concrete units placed on the steel structure. Lytag® lightweight aggregates were used in the precast units to reduce the overall weight, loading pressure and to help with craneage. A specially formulated Lytag® lightweight aggregate, water resistant concrete has been used to re-construct and improve the spectator seating on the terracing for level A-H at Centre Court. Lytag® lightweight aggregate concrete was needed to reduce the loading pressure of the structure and watertight concrete was required to prevent water penetrating the press boxes, media office, changing room and committee rooms situated below.

Project:
Wimbledon Centre Court Redevelopment

Date:
2006 - 2008

Client:
All England Lawn tennis Club

Architect:
Building Design Partnership / HOK Sport Ltd

Structural Engineer:
Capita Symonds Ltd.

Main Contractor:
Galliford Try Construction

Readymix supplier:
Hanson Premix