



Structural – The Audi Centre, Middlesex



Project details:

The Audi Centre is located on one of the UK's most prominent roadside sites, on the A4 Great West Road between central London and Heathrow Airport which carries thousands of commuters to and from the heart of London every day. It is the world's largest Audi Centre, and probably the largest single car 'emporium' in Europe and thus landmark status is inevitable.

Five above ground level floors, and an additional two underground levels, provide a total of over 17,000 square metres of space, a sizeable proportion of which will be dedicated to sales. The two basement levels are built below the water table and beneath the River Thames and house a 32 bay workshop and extensive parking facilities.

Three showroom floors will have space to display 116 cars, while The Audi Quattro rooms on floors four and five will be home to an exhibition that showcases Audi's history.

The building features a mezzanine, approximately 50m wide, fully suspended from a series of 12-degree raking rods supported from the first floor main beams

Lyttag[®] lightweight aggregate was used in the readymixed concrete to reduce weight, allowing for thinner floor slabs and fewer supports allowing for a more versatile space.

The building also has strong environmental credentials and utilises an open loop geothermal system to provide ambient temperature control, with four boreholes sunk to a depth of 160 metres.

Project:

The Audi Centre, Great West Road, Middlesex.

Date:

2006 - 2009

Client:

Audi UK

Architect:

Wilkinson Eyre Architects

Structural Engineer:

Expedition

Main Contractor:

ISG Interior Exterior

Readymix supplier:

London Concrete

