



## Structural – ‘Sky Bridge’, Queen Elizabeth Hospital



### Project details:

The Queen Elizabeth Hospital in Birmingham, the city's first new acute hospital for 70 years opens to patients in June 2010. It will replace the existing Queen Elizabeth and Selly Oak hospitals.

Construction of the £545 million scheme involves relocation of most of south Birmingham's key clinical and mental health facilities to a single site. It is undertaken over 62 months through a joint venture between Balfour Beatty Construction and Haden Young. Construction work is on time and on budget.

Part of the program was to connect the new hospital to the existing buildings. In order for this to be achievable the construction of a 'Sky Bridge' was required. For the deck of this long, 3.28m wide bridge, 4/14mm Lytag<sup>®</sup> LWA was used to produce an LC 30/33 lightweight aggregate concrete mix with an F4/F5 consistence. The concrete was pumped onto RLSD Ribdeck metal decking.

The Birmingham and Solihull Mental Health Trust services will be transferred to the new Queen Elizabeth Hospital in six moves, starting on in June 2010 with completion in October 2011.

### Project:

'Sky Bridge' Queen Elizabeth Hospital, Birmingham

### Date:

2010

### Client:

University Hospital Birmingham  
NHS Foundation Trust  
Birmingham and Solihull Mental Health NHS Trust

### Architect:

Building Design Partnership Limited

### Structural Engineer:

WYG Group (Leeds)

### Main Contractor:

Balfour Beatty

### Sub-Contractor:

C.C. Contracting Ltd

### Readymix supplier:

Lafarge Readymix

