



## Structural – 7/10 Old Bailey, London



### Project details:

The seven-storey office development built adjacent to the Old Bailey High Court in the City of London and constructed within the existing structure's footprint has been designed to remain sympathetic to the site's historic surroundings while also exemplifying the best of modern design. Reducing the impact on the remaining archaeology was a key consideration, as was the stability of the ground.

Reducing the dead weight of the 7,904m<sup>2</sup> of floor area by using Lytag<sup>®</sup> lightweight concrete helped the project team to overcome both of these challenges. The lightweight aggregate concrete incorporated STRUX 90/40 structural fibres.

Using LWA allowed Pell Frischmann 10 design spans of 9m with 203 UC sections, which allowed for greater services flexibility without increasing the frame costs.

Sustainability was a key element in this development, with design and construction best practice implemented wherever possible. The building was designed with an efficient heating and lighting system and has a number of sustainable features, such as rain water harvesting and solar hot water, and the use of secondary aggregate contributed to the project's excellent sustainability credentials.

### Project:

7-10 Old Bailey

### Date:

2007 - 2009

### Client:

MWB  
(Old Bailey Developments)

### Architect:

Sidell Gibson Architects

### Structural Engineer:

Pell Frischmann

### Main Contractor:

Bowen Plc

### Readymix supplier:

CEMEX

