



## Structural – Gloucester Quays Shopping Mall



### Project details:

Gloucester Quays was a £200m, development, occupying 25ha of what was largely industrial land and derelict buildings in the town centre, alongside the historic Gloucester and Sharpness canal. It has been named as one of the UK's top 30 most valuable regeneration developments.

Lyttag<sup>®</sup> LWA was used for overall weight reduction in the structure and to help support the car park, with space for 2000 cars. The roof car park slab also supports some of the weight of the feature sculptural gull wing roof. The total weight of this roof including the glass is around 410 tonne.

The curved radii of the wings spring from the 10 m-wide central breast and are pinned to support the trussed wings. These are propped on square universal columns fixed onto steel base plates with bolts grouted into the reinforced LWAC deck of the car park roof which surrounds the glazed atrium

### Project:

Gloucester Quays Shopping Mall

### Date:

2007 - 2009

### Client:

Gloucester Quays LLP

### Architect:

Dyer Associates

### Structural Engineer:

Capita Symonds Structures

### Main Contractor:

Bovis Lend Lease

### Readymix supplier:

Hanson

