Structural – Cardinal Place, London

Project details:

Cardinal Place is a mixed use development comprising three new buildings providing high quality office accommodation and retail units. Whilst the construction took place access to the retained building had to be maintained. Also the District and Circle line runs directly under the building, therefore extensive safety precautions were in place to ensure no damage was caused to the tunnel during the construction process. The building achieved a “Very Good” BREEAM Rating.
The building sits on large transfer beams over the Circle and District underground lines which actually pass through the basement and minimising weight was of major importance. By using Lytag® lightweight aggregate concrete for the ‘band beam post tensioned slab’ a significant reduction of around 25% in weight of the concrete was achieved. The buildings also rest on rubber shock absorbers to prevent vibrations from the passing trains.

Project:
Cardinal Place, 100 Victoria Street, London

Date:
2003 - 2005

Client:
Land Securities

Architect:
EPR Architects Ltd.

Structural Engineer:
ARUP

Main Contractor:
Sir Robert McAlpine