

Lyons Park

Coventry

As part of the regeneration of the former Jaguar car plant site in Coventry, a food manufacturing facility was built for a major UK logistics provider.



The project

The construction of a 105,699 sq ft bespoke food manufacturing and distribution facility,

The challenge

The new facility was constructed over a brownfield site with a highly variable thickness of reworked fill material, which contained pockets of buried topsoil. The main challenge was to provide a ground improvement solution which could accommodate high column and floor slab loadings of 4300kN and 55kN/m, while limiting total deflection to 25mm and differential settlement to 1:750.

The solution

Rigid inclusions were selected as the most appropriate foundation solution to meet the required specification requirements while delivering a low vibration cast in-situ method of installation that would avoid the creation of pathways to the underlying Principal Aquifer of the Allesley Member. The RIs were designed for a bearing capacity of up to 200kN/m², which enabled the structural engineers to reduce the size of the foundations. This has helped to deliver a sub-structure solution that offers significant overall carbon savings when compared with fully suspended alternatives. In less than seven weeks, 2000 columns were installed.

Project facts

Owner(s)

Goodman UK

Keller business unit(s)

Keller UK

Main contractor(s)

Glencar Construction

Solutions

Bearing capacity / settlement control

Markets

Commercial

Techniques

Rigid inclusions

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