

Coles Distribution Centre

Redbank, Queensland

Keller delivered a foundation piling and ground improvement solution that achieved strict settlement control for a large-scale automated distribution facility built over challenging ground conditions.



The project

An automated food distribution centre 30km southwest of Brisbane, required strict control of slab deflection and settlement to support sensitive automated systems. Keller delivered foundation piling and ground improvement across the 65,000m² site, including deep CFA structural piles and rigid inclusions beneath the main slab.

The challenge

Tight settlement tolerances were critical to ensure performance of automated equipment. Ground conditions were complicated by historic coal mine voids, creating risks to pile integrity and construction consistency. Design changes during construction required a flexible approach, including increased pile lengths and resequencing of works to meet program demands.

The solution

Keller replaced the original bored piling approach with a CFA piling and rigid inclusion solution, leveraging its ability to provide multiple deep CFA rigs to accelerate delivery and meet program requirements. The combined approach enabled efficient installation while maintaining quality across both structural and ground improvement elements. Close collaboration with the main contractor ensured mine voids and ongoing design changes were effectively managed through controlled construction methodologies and flexible sequencing.

Project facts

Owner(s)

Coles Myer

Keller business unit(s)

Keller Australia

Main contractor(s)

Richard Crooke Constructions

Solutions

Bearing capacity / settlement control
Heavy foundations

Markets

Commercial

Techniques

CFA piles
Rigid inclusions
Anchors