

## Ascot Racing Club

Brisbane, QLD

An innovative combination of enlarged pile heads at column locations with the CFA technique.



### The project

As part of a \$37m redevelopment of Eagle Farm Racecourse, Brisbane Racing Club hired Mirvac to build luxury apartments. Keller's project scope was to provide foundation support for the dual-tower development. The project included 58No. piles (600mm shaft diameter) with heads enlarged to 900mm. Both the 600mm diameter enlarged head piles and 900mm diameter column piles included starter cages.

## The challenge

With restricted access, and a congested site due to the proximity to the racecourse, it would be difficult to use a large CFA rig to complete deep 900mm diameter CFA piles. Other challenges included ensuring a quality finish to enlarged head construction process, along with tight tolerances. when completing enlarged head detail and starter bars for building columns.

## The solution

The Keller team was able to draw of years of experience to develop a purpose- built tool that provided an enlarged pile head at platform level as part of a seamless CFA pile installation process. Using enlarged pile heads saved the client significant project time (reduced follow-on trades) and cost by negating the need for pile caps and reducing pile trimming requirements.

## Project facts

### Owner(s)

Mirvac

### Keller business unit(s)

Keller Australia

### Main contractor(s)

Ascot Green

### Solutions

Heavy foundations

### Markets

Commercial

### Techniques

CFA piles