



## Phoenix house, Glen Road, Poole, Dorset



Bemstone Homes Ltd is a residential developer building mainly high quality houses and apartments in the Poole, Sandbanks and Bournemouth area of southern England. The KB<sup>2</sup> team has been working with Bemstone Homes for the past five years and in that time has provided the civil and structural services on 15 schemes.

KB<sup>2</sup>'s relationship with Bemstone Homes has flourished due to the quality and reliability of the information they provide in order to ensure the contractor's tight programme is met; the economies achieved through the design process, design flexibility and ability to listen to the client's needs enabling a quick and positive delivery of service.

Phoenix House is a seven storey, reinforced concrete flat slab framed building, with a transfer structure above the car park to provide the open area necessary for the parking. The foundation is a reinforced concrete raft slab bearing onto Branksome Sand.

Though the two storey addition to provide penthouse apartments was a later addition to the original design, KB<sup>2</sup> had allowed for this within the calculations. KB<sup>2</sup> implemented their 3-dimensional Finite Element Analysis Programme to obtain the most economic design.



**“KB<sup>2</sup> is able to rapidly assess the best structural solution for our developments, they prepare economic designs, produce construction information to suit the tight programme and react quickly when the need arises. I like the way they operate as a team.”**

Geoff James, Managing Director - Bemstone Homes

**KB<sup>2</sup> Consulting Civil & Structural Engineers**

Providing engineering certainty by delivering intelligent designs, minimising project risk and applying principles of sustainability.

[www.kb-2.co.uk](http://www.kb-2.co.uk)

