



SPEEDECK
FOUNDATIONS LIMITED



25%

cost saving
on foundation
piles

Completed on-site

40%

faster
than alternative
proposals

Kenn Road

Clevedon, Somerset

CLIENT TYPE Care Home Provider
LOCATION Kenn Road, Clevedon, Somerset
NO. OF UNITS 1 unit, Care Home

Project Overview

SPEEDECK was key in designing and constructing the foundations for a care home on Kenn Road in Clevedon, working under tight timelines.

Constructing a waterproof lift pit provided durability and long-term value, backed by a materials guarantee.

Using our geo-structural expertise, we optimised the care home foundations for current needs and their expected design life, and the project was completed in ten weeks.

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25%

reduction
in the number of
piles by improving
the ground model's
efficiency.

An efficient foundation solution

Streamlined foundations: We simplified the foundation design by eliminating traditional elements such as a pile mat, ground beams, substructure brickwork, and beam and block floor. This reduction in components expedited the construction process.

Introduction of concrete raft: Incorporating a concrete raft ensured a robust foundation and contributed to a more efficient and seamless construction process.

Client-centric approach: Understanding the client's preference, we confidently utilised CFA piles, deviating from the commonly recommended Driven Precast Piles, aligning our approach with the client's specific needs.

Risk mitigation: Recognising the paramount importance of safety and reliability in care home constructions, we provided comprehensive all-risk coverage for the pile length and structural foundations package. This client-focused strategy aimed to mitigate potential risks associated with the foundation work.

Understanding client preferences played a pivotal role in delivering a project that met and exceeded expectations. This project further cements SPEEDECK's position as a leader in providing cutting-edge solutions for retirement villages and care home apartments.

Challenges

One of the main challenges was the site's existing piles from its previous use. Our design integrated these structures into the reinforced slab and pile layout without the risk of incurring additional costs.

Initially, the proposed compliant scheme included heave precautions beneath the foundation, but with SPEEDECK's comprehensive assessment and communication with the warranty provider, these precautions were designed out.

We accelerated the turnaround time for drawings, allowing the client's approval to be secured quickly and efficiently.

