

**67**  
bedroom  
retirement village  
completed

Completed  
on-site in  
**8**  
weeks



**SPEEDECK**  
FOUNDATIONS LIMITED



## Project Overview

SPEEDECK designed and constructed the foundations for Alton Care Home in Hampshire. Site constraints meant a specialised 65m boom pump was required.

Despite the complexities, this 67-bedroom retirement village received 1,438m<sup>2</sup> of reinforced slab area within 8 weeks.

# Alton Care Home

## Hampshire

CLIENT TYPE	Main Contractor
LOCATION	Alton Care Home, East Hampshire
NO. OF UNITS	1 unit, 67-bed care home

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## Expert Design

SPEEDECK produced geotechnical solutions for foundation integrity and environmental safety.

We developed an accurate ground model from the geotechnical site investigation, eliminating the need for heave precautions.

We also designed a piled foundation scheme and associated report to address the potential risks of dissolution features.

Proposed a reinforced concrete raft foundation with CFA piping using a traditional ground beam approach. Our Raft foundation reduced excavation times and provided a barrier against elevated radon levels.

Streamlined construction processes by eliminating the need for a granular piling mat, instead opting for a 50mm concrete working surface, which stayed in situ.

## Client Savings

Our geotechnical efficiency led to innovative strategies that significantly reduced expenses with expedited project timelines. We conducted an in-house load takedown, saving the client £30,000 compared to the external engineer's load estimates.

A detailed heave report and discussions with warranty providers secured approval, avoiding additional costly heave precautions.

We also collaborated with external consultants to design an under-slab venting system, mitigating the risk of elevated radon levels.