



Piling rig in operation on the Tensor Mechanically Stabilised platform



Working Platform
Nº 456

Project Oak Spirax Sarco Ltd.

Cheltenham, Gloucestershire

CONSTRUCTED IN 2022

Tensor minimises depth requirement in Cheltenham

A new building with a basement was to be constructed on ground comprised of a soft alluvial clay with a high groundwater level. A cost effective pile mat design was required despite these challenging project conditions.

CLIENT'S CHALLENGE

In light of the poor ground conditions and high water table, the client's main challenge was to minimise the depth of excavation for the pile mat.

TENSAR SOLUTION

Low strength subgrade soils outside the scope of BR470 meant an alternative methodology was required to allow piling operations to take place safely.

Tensor's proven alternative to the BR470 approach – Tensor T-Value was adopted to determine a mechanically stabilised working platform thickness incorporating Tensor InterAx geogrids, even taking into account the likelihood of a water table sitting within the platform thickness.

Benefits

The adoption of a Tensor Mechanically Stabilised platform:

Minimised platform thickness despite extremely challenging ground conditions

Enabled the project team to proceed with confidence with Tensor's design support

Resulted in a technically and commercially viable solution that worked on the first time